Datasheet: PHP030A BATCH NUMBER 149919

Description:	RECOMBINANT HUMAN EGF
Name:	EGF
Other names:	EPIDERMAL GROWTH FACTOR
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	0.5 mg

Product Details

derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-red-antibodies.com/protocols. Yes No Not Determined Suggested Dilution ELISA 0.2-0.4ng/well Western Blotting 1.5-3.0ng/lane Functional Assays 0.5-25ng/ml Where this protein has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the protein for use in their own system using appropriate postive/negative controls. Target Species Human Species Cross Reacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. Product Form Purified recombinant protein - lyophilized Reconstitution Reconstitute with 0.5ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For extended storage, the addition of 5% trehalose is recommended	Applications	This product has been reported to work in the following applications. This information is							
communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols. Yes No Not Determined Suggested Dilution ELISA • 0.2 - 0.4ng/well Western Blotting • 0.2 - 0.4ng/well Western Blotting • 0.5 - 25ng/ml Where this protein has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the protein for use in their own system using appropriate postive/negative controls. Target Species Human Species Cross Reacts with: Mouse Reactivity No Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. Product Form Purified recombinant protein - lyophilized Reconstitute with 0.5ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For extended storage, the addition of 5% trehalose is recommended		derived from testing within our laboratories, peer-reviewed publications or personal							
Information. For general protocol recommendations, please visit www.bio: rad-antibodies.com/protocols. Yes No Not Determined Suggested Dilution ELISA • 0.2 • 0.4ng/well Western Blotting • 0.2 • 0.4ng/well Western Blotting • 0.5 • 25ng/ml Where this protein has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the protein for use in their own system using appropriate postive/negative controls. Target Species Human Species Cross Reacts with: Mouse Reactivity Reacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. Product Form Purified recombinant protein - lyophilized Reconstitution Reconstitute with 0.5ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For extended storage, the addition of 5% trehalose is recommended		communications from the originators. Please refer to references indicated for further							
rad-antibodies.com/protocols. Yes No Not Determined Suggested Dilution ELISA • 0.2 - 0.4 ng/well 0.2 - 0.4 ng/well Western Blotting • 1.5 - 3.0 ng/lane 0.5 - 25 ng/ml Where this protein has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the protein for use in their own system using appropriate postive/negative controls. Target Species Human Species Cross Reacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. Product Form Purified recombinant protein - lyophilized Reconstitution Reconstitute with 0.5ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For extended storage, the addition of 5% trehalose is recommended		information. For general	protocol re	commenda	ations, please visit <u>ww</u>	w.bio-			
YesNoNot DeterminedSuggested DilutionELISA•0.2 - 0.4ng/wellWestern Blotting•1.5 - 3.0ng/laneFunctional Assays•0.5 - 25ng/mlWhere this protein has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the protein for use in their own system using appropriate postive/negative controls.Target SpeciesHumanSpecies Cross Reacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.Product FormPurified recombinant protein - lyophilizedReconstitution Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For extended storage, the addition of 5% trehalose is recommended		rad-antibodies.com/protocols.							
ELISA • 0.2 - 0.4 ng/well Western Blotting • 1.5 - 3.0 ng/lane Functional Assays • 0.5 - 25 ng/ml Where this protein has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the protein for use in their own system using appropriate postive/negative controls. Target Species Human Species Cross Reacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. Product Form Purified recombinant protein - lyophilized Reconstitution Reconstitute with 0.5ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For extended storage, the addition of 5% trehalose is recommended			Yes	No	Not Determined	Suggested Dilution			
Western Blotting • 1.5 - 3.0ng/lane Functional Assays • 0.5 - 25ng/ml Where this protein has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the protein for use in their own system using appropriate postive/negative controls. Target Species Human Species Cross Reacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. Product Form Purified recombinant protein - lyophilized Reconstitution Reconstitute with 0.5ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For extended storage, the addition of 5% trehalose is recommended		ELISA	•			0.2 - 0.4ng/well			
Functional Assays•0.5 - 25ng/mlWhere this protein has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the protein for use in their own system using appropriate postive/negative controls.Target SpeciesHumanSpecies Cross Reacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.Product FormPurified recombinant protein - lyophilizedReconstitutionReconstitute with 0.5ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For extended storage, the addition of 5% trehalose is recommended		Western Blotting	-			1.5 - 3.0ng/lane			
Where this protein has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the protein for use in their own system using appropriate postive/negative controls.Target SpeciesHumanSpecies Cross Reacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.Product FormPurified recombinant protein - lyophilizedReconstitutionReconstitute with 0.5ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For extended storage, the addition of 5% trehalose is recommended		Functional Assays	•			0.5 - 25ng/ml			
necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the protein for use in their own system using appropriate postive/negative controls.Target SpeciesHumanSpecies Cross ReactivityReacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.Product FormPurified recombinant protein - lyophilizedReconstitutionReconstitute with 0.5ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For extended storage, the addition of 5% trehalose is recommended		Where this protein has no	ot been te	sted for us	e in a particular techni	que this does not			
a guide only. It is recommended that the user titrates the protein for use in their own system using appropriate postive/negative controls.Target SpeciesHumanSpecies Cross ReactivityReacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.Product FormPurified recombinant protein - lyophilizedReconstitutionReconstitute with 0.5ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For extended storage, the addition of 5% trehalose is recommended		necessarily exclude its use in such procedures. Suggested working dilutions are given as							
system using appropriate postive/negative controls.Target SpeciesHumanSpecies Cross ReactivityReacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.Product FormPurified recombinant protein - lyophilizedReconstitutionReconstitute with 0.5ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For extended storage, the addition of 5% trehalose is recommended		a guide only. It is recomn	nended the	at the user	titrates the protein for	use in their own			
Target SpeciesHumanSpecies Cross ReactivityReacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.Product FormPurified recombinant protein - lyophilizedReconstitutionReconstitute with 0.5ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For extended storage, the addition of 5% trehalose is recommended		system using appropriate	e postive/n	egative co	ntrols.				
Species Cross ReactivityReacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.Product FormPurified recombinant protein - lyophilizedReconstitutionReconstitute with 0.5ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For extended storage, the addition of 5% trehalose is recommended	Target Species	Human							
ReactivityN.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.Product FormPurified recombinant protein - lyophilizedReconstitutionReconstitute with 0.5ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For extended storage, the addition of 5% trehalose is recommended	Species Cross	Reacts with: Mouse							
reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.Product FormPurified recombinant protein - lyophilizedReconstitutionReconstitute with 0.5ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For extended storage, the addition of 5% trehalose is recommended	Reactivity	N.B. Antibody reactivity a	and workin	g conditior	ns may vary between s	species. Cross			
personal communications from the originators. Please refer to references indicated for further information.Product FormPurified recombinant protein - lyophilizedReconstitutionReconstitute with 0.5ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For extended storage, the addition of 5% trehalose is recommended		reactivity is derived from	testing wit	thin our lab	oratories, peer-review	ed publications or			
further information. Product Form Purified recombinant protein - lyophilized Reconstitution Reconstitute with 0.5ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For extended storage, the addition of 5% trehalose is recommended		personal communications	s from the	originators	. Please refer to refere	ences indicated for			
Product Form Purified recombinant protein - lyophilized Reconstitution Reconstitute with 0.5ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For extended storage, the addition of 5% trehalose is recommended		further information.							
Reconstitution Reconstitute with 0.5ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For extended storage, the addition of 5% trehalose is recommended	Product Form	Purified recombinant pro	tein - Iyopl	nilized					
Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For extended storage, the addition of 5% trehalose is recommended	Reconstitution	Reconstitute with 0.5ml c	listilled wa	iter					
bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For extended storage, the addition of 5% trehalose is recommended		Care should be taken du	ring recon	stitution as	the protein may appe	ar as a film at the			
For extended storage, the addition of 5% trehalose is recommended		bottom of the vial. Bio-Ra	ad recomm	nend that th	ne vial is gently mixed	after reconstitution.			
		For extended storage, the	e addition	of 5% treh	alose is recommended	t			
Preparation Purified recombinant human EGF expressed in <i>E. coli</i>	Preparation	Purified recombinant hun	nan EGF e	expressed i	in <i>E. coli</i>				

Preservative Stabilisers	None present
Carrier Free	Yes
Endotoxin Level	< 0.1 ng/ug
Approx. Protein Concentrations	1.0 mg/ml after reconstitution.
External Database Links	UniProt:P01133Related reagents
	Entrez Gene: <u>1950</u> EGF <u>Related reagents</u>
Product Information	Recombinant human epidermal growth factor is 6.2kDa globular protein comprosed of 53 amino acids. EGF is a polypeptide growth factor which stimulates the proliferation of a wide range of epidermal and epithelial cells.
Protein Molecular Weight	6.2 kD (53 Amino acid sequence)
Activity	1 x 10 ⁷ units/mg
Purity	>98% by SDS PAGE and HPLC analysis
ELISA	Recombinant human EGF may be used as athe standard in ELISA applications with eithe a <u>purified human EGF antibody</u> (AHP767) or a <u>biotinylated human EGF antibody</u> (AHP767B).
Western Blotting	Recombinant human EGF may be used as the positive control for Wester Blotting application with either a <u>purified human EGF antibody</u> (AHP767) or a <u>biotinylated human</u> <u>EGF antibody</u> (AHP767B)
References	 Tomlins, C. & Storey, A. (2010) Cutaneous HPV5 E6 causes increased expression of Osteoprotegerin and Interleukin 6 which contribute to evasion of UV-induced apoptosis. <u>Carcinogenesis. 31 (12): 2155-64.</u> Wray, H. <i>et al.</i> (2012) α6 Integrin and CD44 enrich for a primary keratinocyte population that displays resistance to UV-induced apoptosis. <u>PLoS One. 7 (10): e46968.</u> Chen, W. <i>et al.</i> (2016) Tissue Kallikrein Inhibitors Based on the Sunflower Trypsin Inhibitor Scaffold - A Potential Therapeutic Intervention for Skin Diseases. <u>PLoS One. 11</u> (<u>11): e0166268.</u> Zhang, X. <i>et al.</i> (2015) Wht signaling regulates the stemness of lung cancer stem cells and its inhibitors exert anticancer effect on lung cancer SPC-A1 cells. <u>Med Oncol. 32 (4):</u> <u>95.</u> Roth, K. <i>et al.</i> (2021) Clinically relevant aberrant Filip1I DNA methylation detected in a murine model of cutaneous squamous cell carcinoma. <u>EBioMedicine. 67: 103383.</u>

		 6. Inman, G.J. <i>et al.</i> (2018) The genomic landscape of cutaneous SCC reveals drivers and a novel azathioprine associated mutational signature. <u>Nat Commun. 9 (1): 3667.</u> 7. Aiderus, A. <i>et al.</i> (2021) Transposon mutagenesis identifies cooperating genetic drivers during keratinocyte transformation and cutaneous squamous cell carcinoma progression. <u>PLoS Genet. 17 (8): e1009094.</u> 					
Storage		Prior to reconstitution store at -20°C. Following reconstitution store at -20°C if preferred.					
		This pro	duct should b	e stored undiluted.			
		Storage as this n microcer	in frost free fr nay denature ntrifugation be	eezers is not recommer the protein. Should this fore use.	nded. Avoid r product cont	repeated freezing and thawing ain a precipitate we recommend	
Guarantee Guaranteed for 3 months from the date of reconstitution or unti whichever comes first. Please see label for expiry date.						r until the date of expiry,	
Health And SafetyMaterial Safety Datasheet documentation #10527 available at:Information https://www.bio-rad-antibodies.com/SDS/PHP030A 10527						e at:	
Regulatory For			arch purpose				
North & South Tel: +1 800 265 America Fax: +1 919 878 Email: antibody_		7376 3 3751 _sales_us@bic	376 Worldwide Tel: +44 (0)1865 852 700 Europe 3751 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com			Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com	
To find a b	oatch/lot speci	fic datashe	et for this produ	uct, please use our online 'M362326:200501'	search tool at	: bio-rad-antibodies.com/datasheets	
				Drinted on 19 Jan 2024			

Printed on 18 Jan 2024

© 2024 Bio-Rad Laboratories Inc | Legal | Imprint