Datasheet: PHP030A BATCH NUMBER 166898

– • <i>4</i>	RECOMBINANT HUMAN EGF
Description:	RECOMBINANT HOMAN EGI
Name:	EGF
Other names:	EPIDERMAL GROWTH FACTOR
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	0.5 mg

Product Details

Applications	ns. This information is tions or personal idicated for further						
	information. For general protocol recommendations, please visit <u>www.bio-</u> rad-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	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 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						
Preparation	Purified recombinant hu	man EGF	expressed	d in <i>E. coli</i>			

Source	E.coli
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: P01133 Related reagents Entrez Gene: 1950 EGF Related reagents
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 either 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> 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> 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> Scemama, A. <i>et al.</i> (2023) Development of an <i>in vitro</i> microfluidic model to study the role of microenvironmental cells in oral cancer metastasis <u>F1000Research. 12: 439.</u> 					
	Storage		Prior to reconstitution store at -20°C. Following reconstitution store at -20°C if preferred.					
			This product should be stored undiluted.					
			Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.					
	Guarante	96	Guaranteed for 3 months from the date of reconstitution or until the date of expiry, whichever comes first. Please see label for expiry date.					
	Health A Informati	nd Safety on	Material Safety Datasheet documentation #10527 available at: https://www.bio-rad-antibodies.com/SDS/PHP030A 10527				at:	
	Regulato	ry	For research purposes only					
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Т	To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M420071:230706'							
	Printed on 18 Jan 2024							

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