

Datasheet: PHP051 BATCH NUMBER 168492

Description:	RECOMBINANT HUMAN TNF ALPHA
Name:	TNF ALPHA
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	50 µg

Product Details

Applications	This product has been reported to work in the following applications. This information is 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 <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	-			0.05 - 20.0ng/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 recom	mended th	hat the use	er titrates the protein f	or use in their own		
	system using appropriate positive/negative controls.						
Target Species	Human						
Product Form	Purified recombinant cyt	okine - lyc	philized				
Reconstitution	Reconstitute with 0.5 ml	Reconstitute with 0.5 ml 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 long term storage the addition of 0.09% sodium azide is recommended. N.B. For functional studies do not add sodium azide						
Source	E.coli						
Buffer Solution	Sodium Phosphate						
Preservative Stabilisers	None present						
Carrier Free	Yes						

Endotoxin Level	< 0.1 ng/ug				
Approx. Protein Concentrations	Total protein concentration 0.1 mg/ml after reconstitution				
External Database Links	UniProt: P01375 Related reagents Entrez Gene: <u>7124</u> TNF Related reagents				
Synonyms	TNFA, TNFSF2				
Product Information	Recombinant Human tumor necrosis factor alpha is an <i>E. coli</i> -derived recombinant protein corresponding to the C-terminal domain of human tumour necrosis factor alpha (TNFa), a pro-inflammatory cytokine with cytotoxic effects on various tumour cells.				
Protein Molecular Weight	17.4kD (157 Amino acid sequence)				
Activity	The activity of this protein has been tested on murine L929 cells.				
Purity	>98% by SDS PAGE and HPLC analysis				
ELISA	PHP051 may be used as a standard in a sandwich ELISA with <u>AHP1212</u> as the capture reagent and <u>AHP1212B</u> as the detection reagent.				
Western Blotting	PHP051 may be used as a positive control in western blotting for either <u>AHP1212</u> or <u>AHP1212B</u> .				
References	 Cernuda-morollón, E. <i>et al.</i> (2001) 15-Deoxy-Delta 12,14-prostaglandin J2 inhibition of NF-kappaB-DNA binding through covalent modification of the p50 subunit. J Biol Chem. 276 (38): 35530-6. Dernfalk, J. <i>et al.</i> (2004) Commercially available antibodies to human tumour necrosis factor-alpha tested for cross-reactivity with ovine and bovine tumour necrosis factor-alpha using flow cytometric assays. Acta Vet Scand. 45: 99-107. Taubert, A. <i>et al.</i> (2007) Eimeria bovis infection enhances adhesion of peripheral blood mononuclear cells to and their transmigration through an infected bovine endothelial cell monolayer in vitro. Parasitol Res. 101: 591-8. Taubert, A. & Hermosilla, C. (2008) Bovine recombinant IFNgamma induces endothelial cell gene transcription of immunoregulatory molecules and upregulates PMN and PBMC adhesion on bovine endothelial cells. <u>Vet Res Commun. 32: 35-47.</u> Gerber, P.A. <i>et al.</i> (2016) Mechanisms of skin aging induced by EGFR inhibitors. <u>Support Care Cancer. 24 (10): 4241-8.</u> Hara, H. <i>et al.</i> (2021) Stable expression of the human thrombomodulin transgene in pig endothelial cells is associated with a reduction in the inflammatory response. <u>Cytokine.</u> <u>148: 155580.</u> Yamazaki, N. <i>et al.</i> (2022) VE-cadherin-dependent vasculogenic mimicry-like tube 				

	formation in rheumatoid arthritic synovium, <u>Res Sq. 10 Oct [Epub ahead of print].</u> 8. Kislat, A. <i>et al.</i> (2023) The Endogenous Dual Retinoid Receptor Agonist Alitretinoin Exhibits Immunoregulatory Functions on Antigen-Presenting Cells. <u>Int J Mol Sci. 24 (11)</u> :9654.					
Storage	Prior to reconstitution store at -20°C. Following reconstitution store at -20°C.					
	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.					
Guarantee	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 And Safety Material Safety Datasheet documentation #10527 available a Information https://www.bio-rad-antibodies.com/SDS/PHP051 10527				at:		
Regulatory	For research purposes					
orth & South Tel: +1 800 265 merica Fax: +1 919 878 Email: antibody		Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-	Europe 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 batch/lot speci	fic datasheet for this produ	ict, please use our online s 'M420084:230706'	earch tool at: b	io-rad-antibodies.com/datasheets		
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