

Datasheet: PHP051A

Description:	RECOMBINANT HUMAN TNF ALPHA
Name:	TNF ALPHA
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	10 µg

Product Details

Product Information

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

www.abdserotec.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	-			0.2 - 0.4ng/well
Western Blotting	-			1.5 - 3.0ng/lane
Functional Assays	-			0.05ng/ml - 20ng/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 positive/negative controls.

	protein for use in their own system using appropriate positive/negat	ve controls.		
Target Species	Human			
Species Cross Reactivity	Reacts with: Bovine, Mouse N.B. Antibody reactivity and working conditions may vary between sp	ecies.		
Product Form	Purified recombinant cytokine - lyophilised			
Reconstitution	Reconstitute with 0.1 ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. AbD Serotec 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			
Buffer Solution	TRIS buffered saline			
Preservative Stabilisers	None present			
Endotoxin Level	<0.1ng/ug			
Approx. Protein Concentrations	Total protein concentration 0.1 mg/ml after reconstitution			
External Database Links	UniProt: P01375 Related reagents			
	Entrez Gene: 7124 TNF Related reagents			
Synonyms	TNFA, TNFSF2			

PHP051A is an E. coli-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	17.4 kDa based on 157 amino acid sequence			
Activity	PHP051A has a specific activity of $>2 \times 10^7$ units/mg as determined by cytolysis of L929 cells in the presence of Actinomycin D.			
Purity	>98% by SDS PAGE and HPLC analysis			
ELISA	This product may be used as a standard in ELISA with either <u>AHP1212</u> or <u>AHP1212B</u> .			
Western Blotting	This product may be used as the positive control in Western Blotting applications with either <u>AHP1212</u> or <u>AHP1212B</u> .			
References	 Cernuda-Morollon, E. et al. (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 - 35536 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. Vet Res Commun. 32: 35-47. Dernfalk, J. et al. (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. et al. (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. 			
Storage	Prior to reconstitution store at +4°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.			
Shelf Life	3 months from date of reconstitution			
Health And Safety Information	Material Safety Datasheet Documentation #10169 available at: http://www.abdserotec.com/uploads/MSDS/10169.pdf			
Regulatory	For research purposes only			

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