TNF-α Antibody

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<u>4</u>3707

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Applications: WB, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 17 mature. 25 precursor.	Source: Rabbit	UniProt ID: #P01375	Entrez-Gene Id: 7124		
Product Usage Information	We	pplication estern Blotting munoprecipitation			Dilution 1:1000 1:25			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity / Sensitiv	vity TNF	TNF- α Antibody detects endogenous levels of mature TNF- α as well TNF- α precursor protein.						
Species predicted to react based on 1009 sequence homology	~ %	nkey, Pig						
Source / Purification	resi	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly198 of human TNF- α protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background	prot solu proc resp actir con surv α pl <i>Myc</i>	TNF- α , the prototypical member of the TNF protein superfamily, is a homotrimeric type-II membrane protein (1,2). Membrane-bound TNF- α is cleaved by the metalloprotease TACE/ADAM17 to generate a soluble homotrimer (2). Both membrane and soluble forms of TNF- α are biologically active. TNF- α is produced by a variety of immune cells including T cells, B cells, NK cells, and macrophages (1). Cellular response to TNF- α is mediated through interaction with receptors TNF-R1 and TNF-R2 and results in activation of pathways that favor both cell survival and apoptosis depending on the cell type and biological context. Activation of kinase pathways (including JNK, Erk1/2, p38 MAPK, and NF- κ B) promotes the survival of cells, while TNF- α -mediated activation of caspase-8 leads to programmed cell death (1,2). TNF- α plays a key regulatory role in inflammation and host defense against bacterial infection, notably <i>Mycobacterium tuberculosis</i> (3).						
Background Refere	2. H	 Aggarwal, B.B. (2003) Nat Rev Immunol 3, 745-56. Hehlgans, T. and Pfeffer, K. (2005) Immunology 115, 1-20. Lin, P.L. et al. (2007) J Investig Dermatol Symp Proc 12, 22-5. 						
Species Reactivity	Spec	cies reactivity is dete	rmined by testing ir	at least one appro	ved application (e.g., wes	stern blot).		
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key	WB	WB: Western Blotting IP: Immunoprecipitation						
Cross-Reactivity Ke	X: X	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected						
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Limited Uses								

TNF-a Antibody (#3707) Datasheet Without Images Cell Signaling Technology

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