#8184 Store at -20C

TNF-α (D1G2) Rabbit mAb



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Applications: WB, IP, IF-IC, FC-FP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 18, 25	Source/Isotype: Rabbit IgG	UniProt ID: #P01375	Entrez-Gene Id: 7124	
Product Usage Information	Ą	pplication			Dilution		
	W	estern Blotting			1:1000		
	Im	munoprecipitation		1:100			
	Immunofluorescence (Immunocytochemistry)				1:400 - 1:1600		
	Flo	ow Cytometry (Fixed	/Permeabilized)	1:1600			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensitivity		TNF- α (D1G2) Rabbit mAb recognizes endogenous levels of total TNF- α protein. TNF- α (D5G9) Rabbit mAb #6945 is more sensitive by western blot.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant human TNF- α protein.					
Background	pro soli pro res act cor sur α p	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-kB) 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 References 1. Aggarwal, B.B. (2003) Nat Rev Immunol 3, 745-56. 2. Hehlgans, T. and Pfeffer, K. (2005) Immunology 115, 1-20. 3. Lin, P.L. et al. (2007) J Investig Dermatol Symp Proc 12, 22-5.							

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western 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

 $\textbf{WB:} \ We stern \ Blotting \ \textbf{IP:} \ Immunoprecipitation \ \textbf{IF-IC:} \ Immunofluorescence \ (Immunocytochemistry)$

FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

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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