IL-1β Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: ⊢	Sensitivity: Endogenous	MW (kDa): 17, 31	Source/Isotype: Rabbit	UniProt ID: #P01584	Entrez-Gene Id: 3553
	•	<u> </u>	17,51	Nabbit		
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		IL-1 beta Antibody detects endogenous levels of both the 31 kDa precursor and 17 kDa mature form of IL-1 beta.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the amino-terminal sequence of the 17 kDa mature form of human IL-1 beta. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Interleukin-1 β (IL-1 β), one of the major caspase-1 targets, is a multifunctional cytokine that is involved in a host of immune and proinflammatory responses (1). It is produced primarily by activated monocytes and macrophages. It signals through various adaptor proteins and kinases that lead to activation of numerous downstream targets (2-6). Human IL-1 β is synthesized as a 31 kDa precursor. To gain activity, the precursor must be cleaved by caspase-1 between Asp116 and Ala117 to yield a 17 kDa mature form (7,8). Detection of the 17 kDa mature form of IL-1 β is a good indicator of caspase-1 activity.				
Background References		 Dinarello, C.A. (1998) Int Rev Immunol 16, 457-99. Burns, K. et al. (1998) J Biol Chem 273, 12203-9. Cao, Z. et al. (1996) Nature 383, 443-6. Cao, Z. et al. (1996) Science 271, 1128-31. Wesche, H. et al. (1997) Immunity 7, 837-47. Ninomiya-Tsuji, J. et al. (1999) Nature 398, 252-6. Thornberry, N.A. et al. (1992) Nature 356, 768-74. Cerretti, D.P. et al. (1992) Science 256, 97-100. Grahames, C.B. et al. (1999) Br J Pharmacol 127, 1915-21. 				

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 W: Western Blotting

Cross-Reactivity Key H: Human

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