

#31202

IL-1β (D6D6T) Rabbit mAb



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Applications: W, W-S, FC-FP	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 17, 31	Source/Isotype: Rabbit IgG	UniProt ID: #P10749	Entrez-Gene Id: 16176
Product Usage Information		Application Western Blotting Simple Western™ Flow Cytometry (Fixed/Permeabilized)			Dilution 1:1000 1:50 - 1:250 1:400 - 1:800	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody. For a carrier free (BSA and azide free) version of this product see product #23689.				
Specificity/Sensitivity		IL-1β (D6D6T) Rabbit mAb recognizes endogenous levels of total IL-1β protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to mouse IL-1β protein.				
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. 				

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

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 W-S: Simple Western™ FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key M: Mouse

Western Blot Buffer

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