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## IL-1 $\beta$ (D6D6T) Rabbit mAb



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, FC-FP	M	Endogenous	17, 31	Rabbit IgG	#P10749	16176

Product Usage Information	Application	Dilution
	Western Blotting	1:1000
	Flow Cytometry (Fixed/Permeabilized)	1:400 - 1:800
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/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-1 $\beta$ (D6D6T) Rabbit mAb recognizes endogenous levels of total IL-1 $\beta$ protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with recombinant protein specific to mouse IL-1 $\beta$ protein.	
Background	Interleukin-1 $\beta$ (IL-1 $\beta$ ), 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 $\beta$ 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 $\beta$ is a good indicator of caspase-1 activity.	
Background References	<ol style="list-style-type: none"> <li>1. Dinarello, C.A. (1998) <i>Int Rev Immunol</i> 16, 457-99.</li> <li>2. Burns, K. et al. (1998) <i>J Biol Chem</i> 273, 12203-9.</li> <li>3. Cao, Z. et al. (1996) <i>Nature</i> 383, 443-6.</li> <li>4. Cao, Z. et al. (1996) <i>Science</i> 271, 1128-31.</li> <li>5. Wesche, H. et al. (1997) <i>Immunity</i> 7, 837-47.</li> <li>6. Ninomiya-Tsuji, J. et al. (1999) <i>Nature</i> 398, 252-6.</li> <li>7. Thornberry, N.A. et al. (1992) <i>Nature</i> 356, 768-74.</li> <li>8. Cerretti, D.P. et al. (1992) <i>Science</i> 256, 97-100.</li> </ol>	

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	<b>WB:</b> Western Blotting <b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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