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#83186**Cleaved-IL-1 β (Asp116) (D3A3Z) Rabbit mAb**

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Applications: W, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 17	Source/Isotype: Rabbit IgG	UniProt ID: #P01584	Entrez-Gene Id: 3553
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Product Usage Information	Application	Dilution
	Western Blotting	1:1000
	Immunofluorescence (Immunocytochemistry)	1:800 - 1:3200
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	Cleaved-IL-1 β (Asp116) (D3A3Z) Rabbit mAb recognizes endogenous levels of mature IL-1 β protein only when cleaved at Asp116.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp116 of human IL-1 β 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	<ol style="list-style-type: none"> Dinarelli, C.A. (1998) <i>Int Rev Immunol</i> 16, 457-99. Burns, K. et al. (1998) <i>J Biol Chem</i> 273, 12203-9. Cao, Z. et al. (1996) <i>Nature</i> 383, 443-6. Cao, Z. et al. (1996) <i>Science</i> 271, 1128-31. Wesche, H. et al. (1997) <i>Immunity</i> 7, 837-47. Ninomiya-Tsuji, J. et al. (1999) <i>Nature</i> 398, 252-6. Thornberry, N.A. et al. (1992) <i>Nature</i> 356, 768-74. Cerretti, D.P. et al. (1992) <i>Science</i> 256, 97-100. 	
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 IF-IC: Immunofluorescence (Immunocytochemistry)	
Cross-Reactivity Key	H: Human	
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