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Cleaved IL-1 β (Asp116) Antibody

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	17	Rabbit	#P01584	3553

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	Cleaved IL-1beta (Asp116) Antibody detects endogenous levels of the 17 kDa processed form of IL-1beta. The antibody does not recognize the uncleaved precursor of IL-1beta.
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-1beta. 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	<ol style="list-style-type: none"> 1. Dinarello, C.A. (1998) <i>Int Rev Immunol</i> 16, 457-99. 2. Burns, K. et al. (1998) <i>J Biol Chem</i> 273, 12203-9. 3. Cao, Z. et al. (1996) <i>Nature</i> 383, 443-6. 4. Cao, Z. et al. (1996) <i>Science</i> 271, 1128-31. 5. Wesche, H. et al. (1997) <i>Immunity</i> 7, 837-47. 6. Ninomiya-Tsuji, J. et al. (1999) <i>Nature</i> 398, 252-6. 7. Thornberry, N.A. et al. (1992) <i>Nature</i> 356, 768-74. 8. Cerretti, D.P. et al. (1992) <i>Science</i> 256, 97-100. 9. Grahames, C.B. et al. (1999) <i>Br J Pharmacol</i> 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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