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IL-1β Antibody (Mouse Specific)



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

Applications: W	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 31	Source/Isotype: Rabbit	UniProt ID: #P10749	Entrez-Gene Id: 16176
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 β Antibody (Mouse Specific) recognizes endogenous levels of full length mouse IL-1 β protein. This antibody can detect 500pg of mature recombinant mouse IL-1 β by western blot.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of mouse IL-1 β protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Interleukin-1 β (IL-1 β) is a proinflammatory cytokine produced predominantly by activated monocytes and epithelial cells (1). Precursor IL-1 β is cleaved by caspase-1 and mature IL-1 β is then secreted (1-3). Target cells include macrophages and many other cell types. Signaling by IL-1 β involves IL-1 β binding to IL-1 accessory protein (IL-1-AcP); the complex then binds to IL-1RI (1,2). Signaling occurs through activation of MAP kinase and NF- κ B pathways (1,2). IL-1 β also binds to IL-1RII, which lacks an intracellular signaling domain and thereby serves as a high affinity decoy receptor. IL-1 β binding to IL-1RI is inhibited by the negative regulator, IL-1R antagonist (IL-1Ra). IL-1Ra binding to IL-1RI does not signal and serves to block IL-1 β signaling. IL-1 β plays critical roles in the acute phase response and sepsis (1-3).				
Background References		1. Dinarello, C.A. (1996) <i>Blood</i> 87, 2095-147. 2. Allan, S.M. et al. (2005) <i>Nat Rev Immunol</i> 5, 629-40. 3. Kramer, F. et al. (2008) <i>Mol Immunol</i> 45, 2678-89.				
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed 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		M: Mouse				
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