

12507

IL-1β (D3H1Z) Rabbit mAb



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IHC-P	M	Endogenous	17,31	Rabbit IgG	#P10749	16176
Product Usage Information		Application Western Blotting Immunohistochemistry (Paraffin)		Dilution 1:1000 1:50 - 1:200		
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.				
Specificity/Sensitivity		IL-1 β (D3H1Z) Rabbit mAb recognizes endogenous levels of total mouse IL-1 β protein. This antibody can detect 500 pg of mature recombinant mouse IL-1 β .				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His124 of mouse IL-1 β protein.				
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- α 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 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 IHC-P: Immunohistochemistry (Paraffin)				
Cross-Reactivity Key		M: Mouse				
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