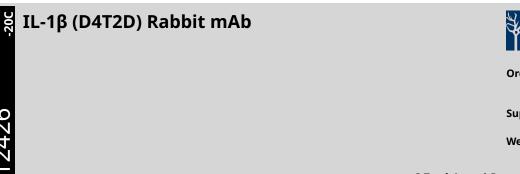
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Applications: W	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 17,31	Source/Isotype: Rabbit IgG	UniProt ID: #P10749	Entrez-Gene Id: 16176		
Product Usage Information	2	Application Western Blotting			Dilution 1:1000			
Storage		Supplied in 10 mM sodium 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 aliguot the antibody.						
Specificity/Sen	sitivity	IL-1β (D4T2D) Rabbit mAb recognizes endogenous levels of total mouse IL-1β protein. This antibody can detect 500 pg of mature recombinant mouse IL-1β.				ו. This antibody		
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val175 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-kB 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-1 R 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 R	eferences	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 determined by testing in at least one approved application (e.g., western blot).						
Western Blot E	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications K	ey	W: Western Blotting						
Cross-Reactivi	ty Key	M: Mouse						
Trademarks ar	nd Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.						
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