Mouse Interleukin-1β (mIL-1β)			
Store	Orders: 877-616-CELL (2355) orders@cellsignal.com		
10 µg	Support: 877-678-TECH (8324)		
#5204	Web: info@cellsignal.com cellsignal.com		
#	3 Trask Lane Danvers Massachusetts 01923 USA		
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MW (kDa): 18	UniProt ID: #P10749	Entrez-Gene Id: 16176
Background		IL-1 β is a pro-inflammatory 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) and then the complex binds to IL-1RI (1,2). Signaling is through activation of MAP kinase and NF-kB pathways (1,2). IL-1 β also binds to IL-1RI that 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 β plays critical roles in the acute phase response and sepsis (1-3).
Endotoxin		Less than 0.01 ng endotoxin/1 μ g mIL-1 β .
Purity		>98% as determined by SDS-PAGE of 6 μg reduced (+) and non-reduced (-) recombinant mIL-1β. All lots are greater than 98% pure.
Source / Purificat	ion	Recombinant mouse IL-1β (mIL-1β) Val118-Ser269 (Accession #NP_032387) was produced in <i>E.coli</i> at Cell Signaling Technology.
Bioactivity		The bioactivity of recombinant mIL-1 β was determined by its ability to induce mouse IL-6 production by 3T3 MEFs WT. The ED ₅₀ of each lot is between 5-20 pg/ml.
Background Refe	rences	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.
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