SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-IL-1 Beta antibody

Catalog Number: SL6319R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	IL-1 Beta
Immunogen:	KLH conjugated synthetic peptide derived from human IL-1 Beta: 161-269/269
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB (1:500-2000) Not yet tested in other applications. Optimal working dilutions must be determined by the end user.
Reactivity:	Mouse (predicted: Human, Bee)
Predicted MW.:	17/32kDa
Subcellular Location:	Secretory protein
Background:	The protein encoded by this gene is a member of the interleukin 1 cytokine family. This cytokine is produced by activated macrophages as a proprotein, which is proteolytically processed to its active form by caspase 1 (CASP1/ICE). This cytokine is an important mediator of the inflammatory response, and is involved in a variety of cellular activities, including cell proliferation, differentiation, and apoptosis. The induction of cyclooxygenase-2 (PTGS2/COX2) by this cytokine in the central nervous system (CNS) is found to contribute to inflammatory pain hypersensitivity. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. [provided by RefSeq, Jul 2008]. **Function:** Produced by activated macrophages, IL-1 stimulates thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, and fibroblast growth factor activity. IL-1 proteins are involved in the inflammatory response, being identified as endogenous pyrogens, and are

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	reported to stimulate the release of prostaglandin and collagenase from synovial cells. **Subunit:** Monomer. **Subcellular Location:** Secreted. Note=The lack of a specific hydrophobic segment in the precursor sequence suggests that IL-1 is released by damaged cells or is secreted by a mechanism differing from that used for other secretory proteins. **Similarity:** Belongs to the IL-1 family. **Database links:** **Entrez Gene:** 3553 Human **Entrez Gene:** 16176 Mouse **Entrez Gene:** 24494 Rat Omim: 147720 Human **SwissProt:** P01584 Human **SwissProt:** P10749 Mouse **SwissProt:** Q63264 Rat **Unigene:** 126256 Human **Unigene:** 222830 Mouse **Unigene:** 9869 Rat

[VALIDATION IMAGES]

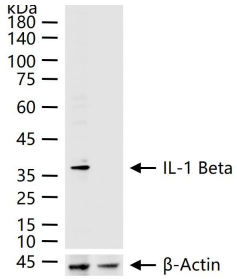


Figure 1. RAW264.7 (M) cells were treated with or without LPS (100ng/ml) for 6 h, then with Brefeldin A (300ng/ml) added after 3 h, 25 µg total protein per lane of cell lysates (see on figure) probed with IL-1 Beta polyclonal antibody, unconjugated (SL6319R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min

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