SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-IL-1 Beta/AF647 Conjugated antibody

Catalog Number: SL6319R-AF647

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-IL-1 Beta/AF647
Immunogen:	KLH conjugated synthetic peptide derived from human IL-1 Beta
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Bee)
Background:	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 reported to stimulate the release of prostaglandin and collagenase from synovial cells.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	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 Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. IL-1βIt is a glycoprotein that can induce the production of acute-phase-related proteins and is alsoβEssential factor for terminal differentiation of cells and antibody secretion，It plays an important role in immune regulation。 IL-1βAfter synthesis in the cell, the precursor is cleaved by enzymes into its mature form and then secreted outside the cell,IL-1βThe precursor has 153 amino acids。The mature form has 116 amino acids。