



## Rabbit Anti-IL-1 Beta antibody

SL10859R

<b>Product Name:</b>	IL-1 Beta
<b>Chinese Name:</b>	白介素1 $\beta$ /IL-1 $\beta$ 抗体
<b>Alias:</b>	Catabolin; H1; IL-1 $\beta$ ; Hematopoietin 1; IFN beta inducing factor; IL 1; IL 1 beta; IL 1B; IL1B; IL1F2; Interleukin 1 beta; Interleukin 1 beta precursor; LAF; OAF; Osteoclast activating factor; Preinterleukin beta; Pro interleukin 1 beta; IL1B HUMAN; Interleukin-1 beta; IL-1 beta.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Bee,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	17kDa
<b>Cellular localization:</b>	Secretory protein
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	Recombinant human IL-1B protein:117-269/269 (C-6x His-Tag)
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	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.

**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.

**SWISS:**

P01584

**Gene ID:**

3553

**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: 9869Rat](#)

**Important Note:**

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

Growth factors and hormones ( Growth Factor and Hormones)

IL-

1 $\beta$ 是一种glycoprotein, 它既可诱导急性期时相关蛋白的产生, 也是 $\beta$ 细胞终末分化并分泌抗体的必需因子, 在免疫调节中发挥重要做用。

IL-1 $\beta$ 前体在细胞内合成后被酶剪切为成熟形态后排出到细胞外,IL-1 $\beta$ 的前体有153个氨基酸。成熟形态有116个氨基酸。

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