




## Rabbit Anti-IL-1 Beta antibody

SL0812R

<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>文献引用</b> 	<p><b>Specific References(12)</b> SL0812R has been referenced in 12 publications.</p> <p><b>[IF=2.03]</b>Zhong, Shigen, et al. "Enhanced homing of mesenchymal stem cells to the ischemic myocardium by ultrasound-targeted microbubble destruction." <i>Ultrasonics</i> 52.2 (2012): 281-286.<b>WB</b>; <a href="#">PubMed:21937069</a></p> <p><b>[IF=2.15]</b>Bagriyanik, H. A., et al. "The effects of resveratrol on chronic constriction injury of sciatic nerve in rats." <i>Neuroscience Letters</i> (2014).<b>IHC-P;Rat</b>. <a href="#">PubMed:24394911</a></p> <p><b>[IF=2.68]</b>Wang, Hui, et al. "Anti-inflammatory cytokine TSG-6 inhibits hypertrophic scar formation in a rabbit ear model." <i>European Journal of Pharmacology</i> (2015).<b>IHC-P;Rabbit</b>. <a href="#">PubMed:25661977</a></p> <p><b>[IF=1.48]</b>Li, Kang, et al. "CD14 knockdown reduces lipopolysaccharide-induced cell viability and expression of inflammation-associated genes in gastric cancer cells in vitro and in nude mouse xenografts." <i>Molecular Medicine Reports</i>.<b>other</b>; <a href="#">PubMed:26081375</a></p> <p><b>[IF=6.03]</b>Johann, Sonja, et al. "NLRP3 inflammasome is expressed by astrocytes in the</p>

SOD1 mouse model of ALS and in human sporadic ALS patients." *Glia* (2015). **WB;Human.**

[PubMed:26200799](#)

**[IF=2.46]** de Jesus, Julio Fernandes, et al. "Low-level laser therapy in IL-1 $\beta$ , COX-2, and PGE2 modulation in partially injured Achilles tendon." *Lasers in Medical Science* 30.1 (2015): 153-158. **IHC-P;Rat.**

[PubMed:25070591](#)

**[IF=1.35]** Hu, Ruiqi, et al. "Immunoreactivities of IL-1 $\beta$  and IL-1R in oviduct of Chinese brown frog (*Rana dybowskii*) during pre-hibernation and the breeding period." *Acta histochemica* 118.2 (2016): 164-169. **Other Species.**

[PubMed:26746863](#)

**[IF=1.35]** Hu, Ruiqi, et al. "Immunoreactivities of IL-1 $\beta$  and IL-1R in oviduct of Chinese brown frog (*Rana dybowskii*) during pre-hibernation and the breeding period." *Acta histochemica* 118.2 (2016): 164-169. **IHC-P;Other Species.**

[PubMed:26746863](#)

**[IF=1.35]** Xi, Liqin, et al. "Immunoreactivities of NF- $\kappa$ B, IL-1 $\beta$  and IL-1R in the skin of Chinese brown frog (*Rana dybowskii*)." *Acta Histochemica* (2016). **IHC-P;Other Species.**

[PubMed:27919431](#)

**[IF=5.40]** Heitzer, Marius, et al. "Administration of 17 $\beta$ -Estradiol Improves Motoneuron Survival and Down-regulates Inflammation Activation in Male SOD1 (G93A) ALS Mice." *Molecular Neurobiology*: 1-15. **WB;Mouse.**

[PubMed:27957680](#)

**[IF=1.06]** Liu, Dong-qing, Xiao-jing Li, and Xiao-juan Weng. "Effect of BTXA on Inhibiting Hypertrophic Scar Formation in a Rabbit Ear Model." *Aesthetic Plastic Surgery* (2017): 1-8. **IHC-P;Rabbit.**

[PubMed:28180922](#)

**[IF=1.56]** Du, Jinghua, et al. "TLR4-dependent signaling pathway modulation: A novel mechanism by which pioglitazone protects against nutritional fibrotic steatohepatitis in mice." *Molecular medicine reports* 13.3 (2016): 2159-2166. **WB;Mouse.**

[PubMed:26781175](#)

**Organism Species:**

Rabbit

**Clonality:**

Polyclonal

**React Species:**

Human, Mouse, Rat, Dog, Pig, Rabbit, Guinea Pig,

<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1µg/TestIF=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>	KLH conjugated synthetic peptide derived from human IL-1beta:101-200/269
<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>	<p>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].</p> <p><b>Function:</b> 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.</p> <p><b>Subunit:</b> Monomer.</p> <p><b>Subcellular Location:</b> 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.</p> <p><b>Similarity:</b> Belongs to the IL-1 family.</p> <p><b>SWISS:</b></p>

P01584

**Gene ID:**  
3553

**Database links:**

[Entrez Gene: 3553](#)Human

[Entrez Gene: 16176](#)Mouse

[Entrez Gene: 24494](#)Rat

[Oimim: 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.

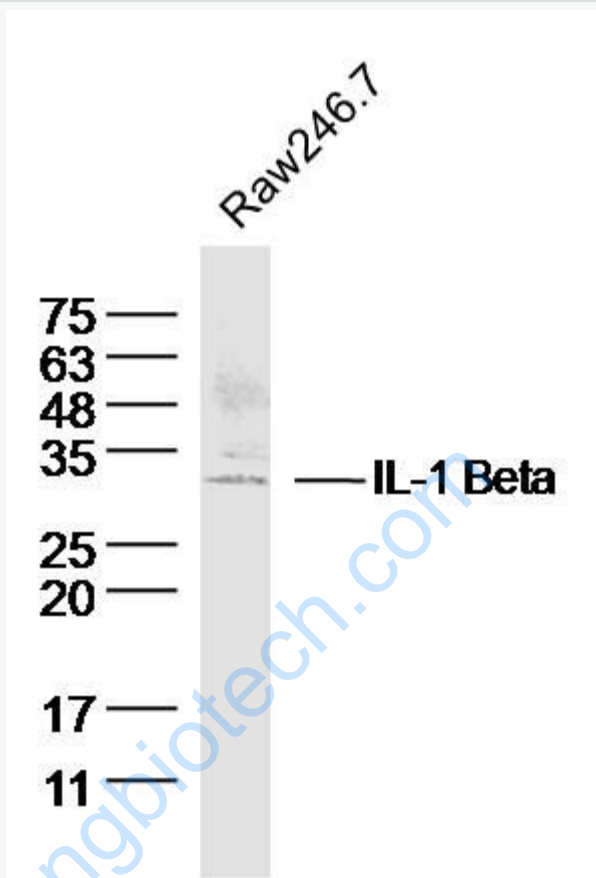
Growth factors and hormones ( Growth Factor and Hormones)

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作用。

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。

Picture:



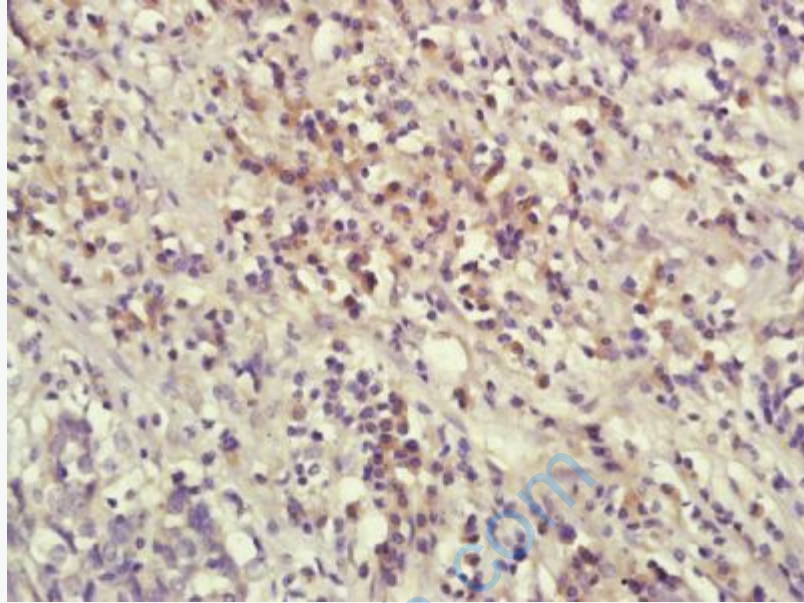
Sample: Raw246.7 (Mouse) Cell Lysate at 40 ug

Primary: Anti- IL-1 beta (SL0812R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 17 kD

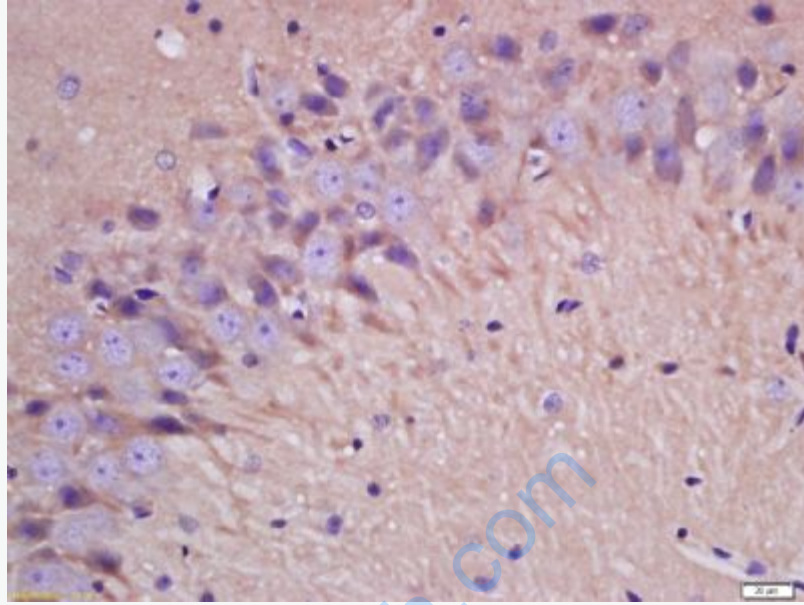
Observed band size: 30 kD



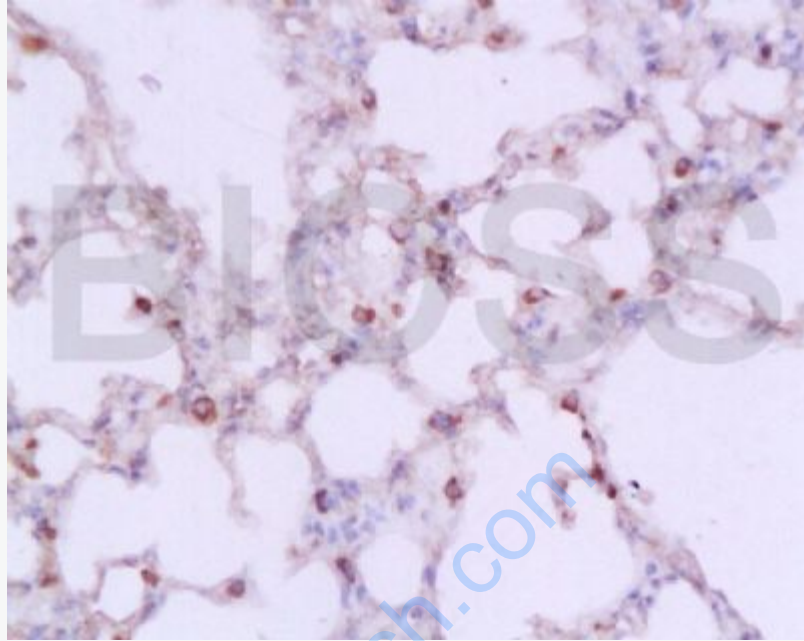
Tissue/cell: Human cervical carcinoma tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-IL-1 Beta/IL-1B Polyclonal Antibody, Unconjugated(SL0812R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

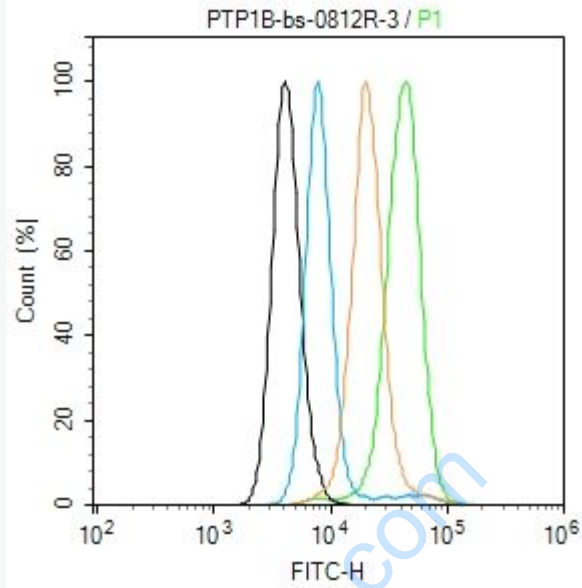


Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;  
Incubation: Anti-IL-1 Beta/IL-1B Polyclonal Antibody, Unconjugated(SL0812R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat lung tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;  
Incubation: Anti-IL-1 Beta/IL-1B Polyclonal Antibody, Unconjugated(SL0812R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining





Blank control (black line): A431(black) (The cells were fixed with 2% paraformaldehyde (10 min) , then permeabilized with PBST for 30 min on room temperature)

Primary Antibody (green line): Rabbit Anti-PTP1B antibody (SL0812R) ; Dilution:  $1\mu\text{g} / 10^6$  cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC;Dilution:  $1\mu\text{g} / \text{test}$ .