**Applications** 

WB,IHC,IF,ELISA



# IL-1β Rabbit pAb

CatalogNo: YT5201 Orthogonal Validated 💽

### **Key Features**

Host Species Reactivity

Rabbit
 Human, Mouse, Rat

MW Isotype
• 17kD (Observed) • IgG

### Recommended Dilution Ratios

WB 1:500-1:2000 IHC: 1:100-300 ELISA 1:20000 IF 1:100-300

Not yet tested in other applications.

## Storage

Storage\* -15°C to -25°C/1 year(Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### **I** Basic Information

**Clonality** Polyclonal

# Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from the Internal

region of human IL1B. AA range:181-230

**Specificity** IL-1β Polyclonal Antibody detects endogenous levels of IL-1β protein.

# **Target Information**

#### Gene name

IL1B

#### **Protein Name**

Interleukin-1 beta

Organism	Gene ID	UniProt ID
Human	<u>3553</u> ;	<u>P01584;</u>
Mouse	<u>16176;</u>	<u>P10749;</u>
Rat		<u>Q63264;</u>

### Cellular Localization

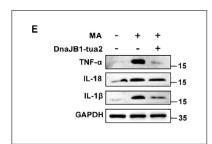
Cytoplasm, cytosol . Secreted . Lysosome . Secreted, extracellular exosome . The precursor is cytosolic (PubMed:15192144). In response to inflammasome-activating signals, such as ATP for NLRP3 inflammasome or bacterial flagellin for NLRC4 inflammasome, cleaved and secreted (PubMed:24201029, PubMed:33377178, PubMed:33883744). Mature form is secreted and released in the extracellular milieu by passing through the gasdermin-D (GSDMD) pore (PubMed:33883744). In contrast, the precursor form is not released, due to the presence of an acidic region that is proteolytically removed by CASP1 during maturation (PubMed:33883744). The secretion is dependent on protein unfolding and facilitated by the cargo receptor TMED10 (PubMed:32272059). .

**Tissue specificity** Expressed in activated monocytes/macrophages (at protein level).

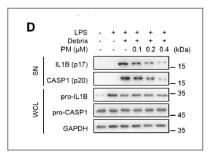
#### **Function**

Domain: The similarity among the IL-1 precursors suggests that the amino ends of these proteins serve some as yet undefined function. 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., online information:Interleukin-1 entry, online information:The Singapore human mutation and polymorphism database, similarity: Belongs to the IL-1 family, subcellular location: 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., subunit: Monomer.,

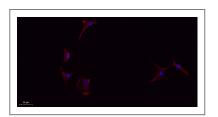
## **I** Validation Data



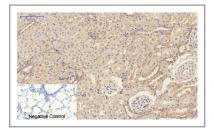
A novel gene therapy for methamphetamine- induced cognitive disorder with a hyper-acidified fusion variant of DnaJB1 Molecular Therapy-Nucleic Acids Zhurong Zou WB Mouse hippocampus BV2 cell



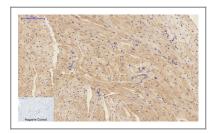
Pristimerin suppresses AIM2 inflammasome by modulating AIM2-PYCARD/ASC stability via selective autophagy to alleviate tendinopathy. Autophagy Xiao Yu WB Mouse Achilles tendon Peritoneal macrophages



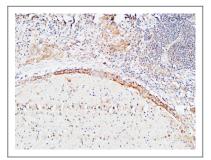
Immunofluorescence analysis of A549. 1,primary Antibody(red) was diluted at 1:200(4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - Alexa Fluor 594 Secondary antibody was diluted at 1:1000(room temperature, 50min).3, Picture B: DAPI(blue) 10min.



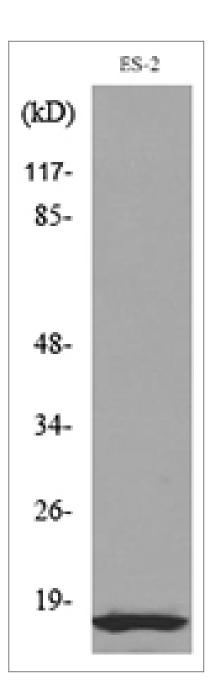
Immunohistochemical analysis of paraffin-embedded Rat-lung tissue. 1,IL-1 $\beta$  Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



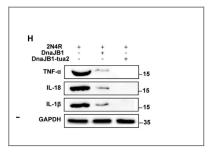
Immunohistochemical analysis of paraffin-embedded Mouse-heart tissue. 1,IL-1 $\beta$  Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Human lung. 1, Antibody was diluted at 1:200(4° overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



Western blot analysis of lysate from ES-2 cells, using IL1B Antibody.



A novel gene therapy for methamphetamine- induced cognitive disorder with a hyper-acidified fusion variant of DnaJB1 Molecular Therapy-Nucleic Acids Zhurong Zou WB Mouse hippocampus BV2 cell

### | Contact information

Orders: order@immunoway.com Support: tech@immunoway.com

Telephone: 877-594-3616 (Toll Free), 408-747-0185

Website: http://www.immunoway.com

Address: 2200 Ringwood Ave San Jose, CA 95131 USA



Please scan the QR code to access additional product information:

IL-1β Rabbit pAb

For Research Use Only. Not for Use in Diagnostic Procedures.	Antibody   ELISA Kits   Protein   Reagents
	Immunoway - 5 / 5