

## ARG41911 anti-IL1 beta antibody

Package: 100 µl  
Store at: -20°C

### Summary

|                     |   |
|---------------------|---|
| Product Description | Rabbit Polyclonal antibody recognizes IL1 beta                  |
| Tested Reactivity   | Hu  |
| Predict Reactivity  | Ms, Rat   |
| Tested Application  | ICC/IF, IHC-P, WB   |
| Host                | Rabbit  |
| Clonality           | Polyclonal  |
| Isotype             | IgG   |
| Target Name         | IL1 beta  |
| Conjugation         | Un-conjugated   |
| Alternate Names     | Interleukin-1 beta; IL1-BETA; IL-1; IL-1 beta; Catabolin; IL1F2 |

### Application Instructions

| Application table | Application  | Dilution      |
|-------------------|--|---------------|
|                   | ICC/IF   | 1:200 - 1:500 |
|                   | IHC-P  | 1:100 - 1:300 |
|                   | WB   | 1:500         |
| Application Note  | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |               |
| Observed Size     | ~ 35 kDa   |               |

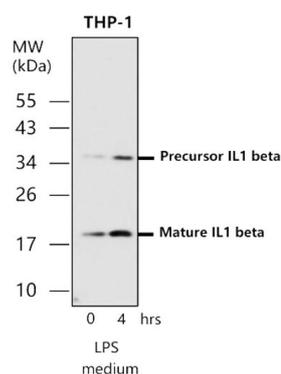
### Properties

|                     |   |
|---------------------|---|
| Form                | Liquid  |
| Purification        | Affinity purified.  |
| Buffer              | 100 mM Tris Glycine (pH 7.0), 0.025% ProClin 300, 20% Glycerol and 1% BSA.  |
| Preservative        | 0.025% ProClin 300  |
| Stabilizer          | 20% Glycerol and 1% BSA   |
| Concentration       | 0.64 mg/ml  |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note                | For laboratory research only, not for drug, diagnostic or other use.  |

## Bioinformation

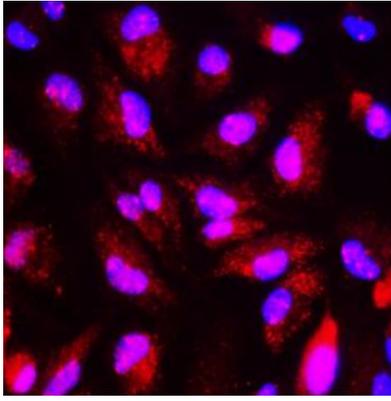
|                       |  |
|-----------------------|--|
| Gene Symbol           | IL1B   |
| Gene Full Name        | interleukin 1, beta  |
| Background            | IL1 beta protein is a member of the interleukin 1 cytokine family. This cytokine is produced by activated macrophages as a proprotein, 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              | IL1 beta is a potent proinflammatory cytokine. Initially discovered as the major endogenous pyrogen, induces prostaglandin synthesis, neutrophil influx and activation, T-cell activation and cytokine production, B-cell activation and antibody production, and fibroblast proliferation and collagen production. Promotes Th17 differentiation of T-cells. Synergizes with IL12/interleukin-12 to induce IFNG synthesis from T-helper 1 (Th1) cells (PubMed:10653850). [UniProt]  |
| Highlight             | Related products:<br><a href="#">IL1 beta antibodies</a> ; <a href="#">IL1 beta ELISA Kits</a> ; <a href="#">IL1 beta Duos / Panels</a> ; <a href="#">IL1 beta recombinant proteins</a> ; <a href="#">Anti-Rabbit IgG secondary antibodies</a> ;<br>Related news:<br><a href="#">HMGB1 in inflammation</a><br><a href="#">Inflammatory Cytokines</a><br><a href="#">Exploring Antiviral Immune Response</a><br><a href="#">RIP1 activation and pathogenesis of NASH</a>  |
| Research Area         | Pyroptosis Study antibody  |
| Calculated Mw         | 31 kDa   |
| PTM                   | Activation of the IL1B precursor involves a CASP1-catalyzed proteolytic cleavage. Processing and secretion are temporarily associated. [UniProt]   |
| Cellular Localization | Extracellular exosome, secreted. Cytosol. Lysosome. [UniProt]  |

## Images



ARG41911 anti-IL1 beta antibody WB image

Western blot: THP-1 cells untreated or treated with LPS medium for 4 hours. 50 µg of cell lysates stained with ARG41911 anti-IL1 beta antibody at 1:1000 dilution, overnight at 4°C.



ARG41911 anti-IL1 beta antibody ICC/IF image

Immunofluorescence: DBTRG-05MG cells stained with ARG41911 anti-IL1 beta antibody (red). Nuclear staining (blue).