

## ARG10010 anti-IL1 beta antibody [S1H12]

Package: 100 µg  
Store at: -20°C

### Summary

|                     |  |
|---------------------|--|
| Product Description | Mouse Monoclonal antibody [S1H12] recognizes IL1 beta  |
| Tested Reactivity   | Hu   |
| Tested Application  | ELISA, WB  |
| Specificity         | Does not show any cross reaction with recombinant human IL-1 $\alpha$ , recombinant murine IL-1 $\alpha$ or IL-1 $\beta$ . |
| Host                | Mouse  |
| Clonality           | Monoclonal   |
| Clone               | S1H12  |
| Isotype             | IgG1, kappa  |
| Target Name         | IL1 beta   |
| Species             | Human  |
| Immunogen           | Purified recombinant human IL-1 $\beta$  |
| Conjugation         | Un-conjugated  |
| Alternate Names     | Interleukin-1 beta; IL1-BETA; IL-1; IL-1 beta; Catabolin; IL1F2  |

### Application Instructions

|                   |   |                 |
|-------------------|---|-----------------|
| Application table | Application   | Dilution        |
|                   | ELISA   | Assay-dependent |
|                   | WB  | 20 - 100 ng/ml  |
| Application Note  | ELISA: React with human IL-1 $\beta$ .<br>WB: This antibody, when used at concentration of 20-100 ng/ml will allow visualization of 100 ng/lane of human IL-1 $\beta$ .<br>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |                 |

### Properties

|                     |  |
|---------------------|--|
| Form                | Liquid   |
| Purification        | Protein G affinity purified  |
| Buffer              | 0.01M PBS (pH 7.2)   |
| Concentration       | 1 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 or below. 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

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|                |  |
|----------------|--|
| Database links | <a href="#">GeneID: 3553 Human</a><br><a href="#">Swiss-port # P01584 Human</a>  |
| 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> ;<br><a href="#">Anti-Mouse 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.   |