

# Anti-IL-1 beta Rabbit Monoclonal Antibody

Catalog # ABO16231

## Product Information

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|--------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IP, FC                                                                                                                  |
| <b>Primary Accession</b> | <a href="#">P10749</a>                                                                                                      |
| <b>Host</b>              | Rabbit                                                                                                                      |
| <b>Isotype</b>           | IgG                                                                                                                         |
| <b>Reactivity</b>        | Mouse                                                                                                                       |
| <b>Clonality</b>         | Monoclonal                                                                                                                  |
| <b>Format</b>            | Liquid                                                                                                                      |
| <b>Description</b>       | Anti-IL-1 beta Rabbit Monoclonal Antibody . Tested in WB, IP, Flow Cytometry applications. This antibody reacts with Mouse. |

## Additional Information

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|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>             | 16176                                                                                                                                      |
| <b>Other Names</b>         | Interleukin-1 beta, IL-1 beta, IL1b                                                                                                        |
| <b>Calculated MW</b>       | 30931                                                                                                                                      |
| <b>Application Details</b> | WB 1:500-1:2000<br>IP 1:50<br>FC 1:50                                                                                                      |
| <b>Source</b>              | Eukaryota                                                                                                                                  |
| <b>Contents</b>            | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.                        |
| <b>Clone Names</b>         | Clone: 28I10                                                                                                                               |
| <b>Immunogen</b>           | A synthesized peptide derived from human IL-1 beta                                                                                         |
| <b>Purification</b>        | Affinity-chromatography                                                                                                                    |
| <b>Storage</b>             | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles. |

## Protein Information

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| <b>Name</b>     | IL1b                                                                                                                                                                                                                                                                                                    |
| <b>Function</b> | Potent pro-inflammatory 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. Plays a role in angiogenesis by inducing VEGF production synergistically with TNF and IL6. Involved in transduction of inflammation downstream of pyroptosis: its mature form is specifically released in the extracellular milieu by passing through the gasdermin-D (GSDMD) pore.

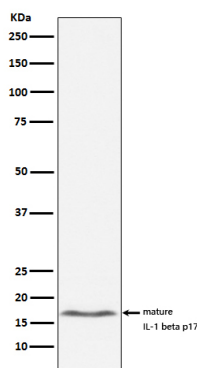
### Cellular Location

Cytoplasm, cytosol. Secreted Lysosome {ECO:0000250|UniProtKB:P01584}. Secreted, extracellular exosome. Note=The precursor is cytosolic In response to inflammasome-activating signals, such as ATP for NLRP3 inflammasome or bacterial flagellin for NLRC4 inflammasome, cleaved and secreted. Mature form is secreted and released in the extracellular milieu by passing through the gasdermin-D (GSDMD) pore. In contrast, the precursor form is not released, due to the presence of an acidic region that is proteolytically removed by CASP1 during maturation. The secretion is dependent on protein unfolding and facilitated by the cargo receptor TMED10. {ECO:0000250|UniProtKB:P01584}

### Tissue Location

Expressed in activated macrophages (at protein level).

## Images



Western blot analysis of IL1 beta expression in RAW 264.7 cell treated with Lipopolysaccharide (LPS) cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.