

**IL-1 beta Rabbit mAb**  
Catalog # AP77582**Specification****IL-1 beta Rabbit mAb - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">P01584</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Monoclonal Antibody</b>
Calculated MW	<b>30748</b>

**IL-1 beta Rabbit mAb - Additional Information**

Gene ID 3553

**Other Names**

IL1B

**Format**

Liquid

**IL-1 beta Rabbit mAb - Protein Information**Name IL1B ([HGNC:5992](#))

Synonyms IL1F2

**Function**

Potent pro-inflammatory cytokine (PubMed: [10653850](http://www.uniprot.org/citations/10653850), PubMed: [12794819](http://www.uniprot.org/citations/12794819), PubMed: [28331908](http://www.uniprot.org/citations/28331908), PubMed: [3920526](http://www.uniprot.org/citations/3920526)). 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 (PubMed: [3920526](http://www.uniprot.org/citations/3920526)). Promotes Th17 differentiation of T-cells. Synergizes with IL12/interleukin-12 to induce IFNG synthesis from T-helper 1 (Th1) cells (PubMed: [10653850](http://www.uniprot.org/citations/10653850)). Plays a role in angiogenesis by inducing VEGF production synergistically with TNF and IL6 (PubMed: [12794819](http://www.uniprot.org/citations/12794819)). 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 (PubMed: [33377178](http://www.uniprot.org/citations/33377178), PubMed: [33883744](http://www.uniprot.org/citations/33883744)). Acts as a sensor of *S.pyogenes* infection in skin: cleaved and activated by pyogenes SpeB protease, leading to an inflammatory response that prevents bacterial growth during invasive skin infection

(PubMed:<a href="http://www.uniprot.org/citations/28331908" target="\_blank">28331908</a>).

#### Cellular Location

Cytoplasm, cytosol. Secreted. Lysosome Secreted, extracellular exosome {ECO:0000250|UniProtKB:P10749} Note=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 Location

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

#### IL-1 beta Rabbit mAb - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### IL-1 beta Rabbit mAb - Images