

Anti-IL-1 beta Rabbit Monoclonal Antibody
Catalog # ABO16231**Specification**

Anti-IL-1 beta Rabbit Monoclonal Antibody - Product Information

Application	WB, IP, FC
Primary Accession	P10749
Host	Rabbit
Isotype	IgG
Reactivity	Mouse
Clonality	Monoclonal
Format	Liquid

Description

Anti-IL-1 beta Rabbit Monoclonal Antibody . Tested in WB, IP, Flow Cytometry applications. This antibody reacts with Mouse.

Anti-IL-1 beta Rabbit Monoclonal Antibody - Additional Information

Gene ID 16176

Other Names

Interleukin-1 beta, IL-1 beta, Il1b

Calculated MW

31 kDa, 28 kDa, 17 kDa KDa

Application Details

WB 1:500-1:2000
IP 1:50
FC 1:50

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human IL-1 beta

Purification

Affinity-chromatography

Storage

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.

Anti-IL-1 beta Rabbit Monoclonal Antibody - Protein Information

Name Il1b

Function

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}

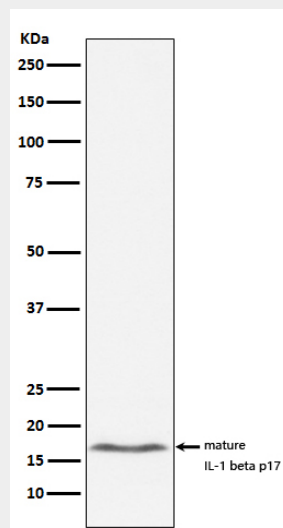
Tissue Location

Expressed in activated macrophages (at protein level).

Anti-IL-1 beta Rabbit Monoclonal Antibody - 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](#)

Anti-IL-1 beta Rabbit Monoclonal Antibody - Images

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