

Anti-IL-18 Antibody
Catalog # ABO11739**Specification**

Anti-IL-18 Antibody - Product Information

Application	WB
Primary Accession	P97636
Host	Rabbit
Reactivity	Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Interleukin-18(IL18) detection. Tested with WB in Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-IL-18 Antibody - Additional Information

Gene ID 29197

Other Names

Interleukin-18, IL-18, Interferon gamma-inducing factor, IFN-gamma-inducing factor, Interleukin-1 gamma, IL-1 gamma, IL18, Igif

Calculated MW

22303 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Rat

Subcellular Localization

Secreted.

Protein Name

Interleukin-18

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

E.coli-derived rat IL-18 recombinant protein (Position: H37-S194). Rat IL-18 shares 64% and 91% amino acid (aa) sequences identity with human and mouse IL-18, respectively.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-IL-18 Antibody - Protein Information**Name** IL18**Synonyms** Ig1f**Function**

Pro-inflammatory cytokine primarily involved in epithelial barrier repair, polarized T-helper 1 (Th1) cell and natural killer (NK) cell immune responses. Upon binding to IL18R1 and IL18RAP, forms a signaling ternary complex which activates NF-kappa-B, triggering synthesis of inflammatory mediators. Synergizes with IL12/interleukin- 12 to induce IFNG synthesis from T-helper 1 (Th1) cells and natural killer (NK) cells. 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.

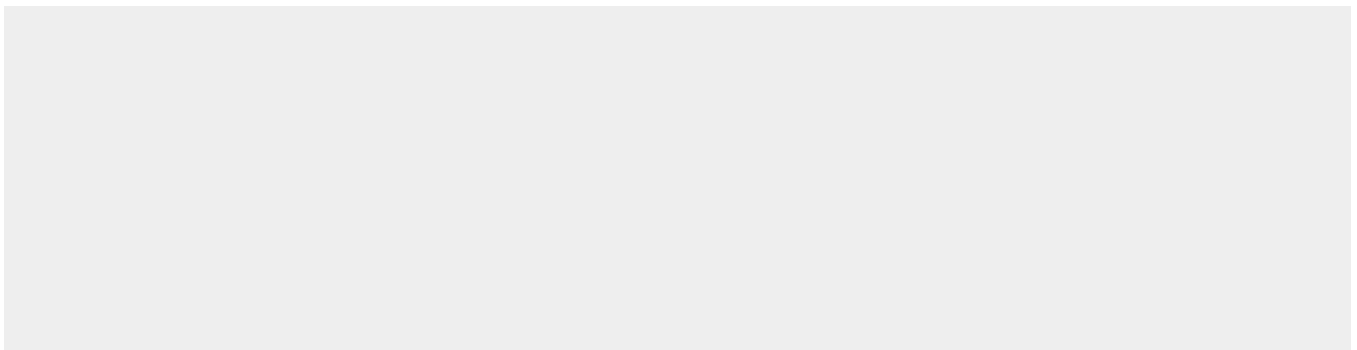
Cellular Location

Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q14116}. Secreted {ECO:0000250|UniProtKB:Q14116}. Note=The precursor is cytosolic. In response to inflammasome-activating signals, 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:Q14116}

Anti-IL-18 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-18 Antibody - Images



Anti-IL-18 Picoband antibody, ABO11739-1.jpg All lanes: Anti-IL-18(ABO11739) at 0.5ug/ml
Lane 1: Rat Spleen Tissue Lysate at 40ug
Lane 2: Rat Thymus Tissue Lysate at 40ug
Lane 3: PC12 Whole Cell Lysate at 40ug
Predicted bind size: 22KD
Observed bind size: 22KD

Anti-IL-18 Antibody - Background

Interleukin (IL)-18, also called Interferon-gamma-inducing factor (IGIF), augments natural killer (NK) activity in spleen cells. The gene encodes a precursor protein of 192 amino acids and a mature protein of 157 amino acids. IL18 is a recently discovered cytokine that modulates both T helper type 1 (Th1) and Th2 responses. IL18 is a potent proinflammatory cytokine with potential atherogenic properties. It is highly expressed in the atherosclerotic plaques compared with control normal arteries and is localized mainly in plaque macrophages.