

Anti-IL-18 Antibody

Catalog # ABO11739

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.

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
Application Details	Western blot, 0.1-0.5 µg/ml, Rat
Subcellular Localization	Secreted.
Source	Eukaryota
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.

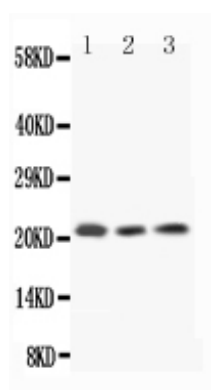
Protein Information

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}

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.

Images



Anti-IL-18 Picoband antibody, ABO11739-1.jpgAll lanes:
Anti-IL-18(ABO11739) at 0.5ug/mlLane 1: Rat Spleen
Tissue Lysate at 40ugLane 2: Rat Thymus Tissue Lysate at
40ugLane 3: PC12 Whole Cell Lysate at 40ugPredicted
bind size: 22KDObserved bind size: 22KD

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