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IL18 Antibody
Rabbit Polyclonal Antibody
Catalog # ALS12489

Specification

IL18 Antibody - Product Information

Application	**IHC, WB**
Primary Accession	Q14116
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**22kDa KDa**

IL18 Antibody - Additional Information

Gene ID 3606

Other Names
Interleukin-18, IL-18, Iboctadekin, Interferon gamma-inducing factor, IFN-gamma-inducing factor, Interleukin-1 gamma, IL-1 gamma, IL18, IGIF, IL1F4

Reconstitution & Storage
Long term: -70°C; Short term: -20°C; Avoid freeze-thaw cycles.

Precautions
IL18 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

IL18 Antibody - Protein Information

Name IL18 (HGNC:5986)

Synonyms IGIF, IL1F4

Function
Pro-inflammatory cytokine primarily involved in epithelial barrier repair, polarized T-helper 1 (Th1) cell and natural killer (NK) cell immune responses (PubMed:10653850). Upon binding to IL18R1 and IL18RAP, forms a signaling ternary complex which activates NF-kappa-B, triggering synthesis of inflammatory mediators (PubMed:14528293, PubMed:25500532). Synergizes with IL12/interleukin-12 to induce IFNG synthesis from T-helper 1 (Th1) cells and natural killer (NK) cells (PubMed:10653850). 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:33883744).

Cellular Location
Cytoplasm. Secreted. Note=The precursor is cytosolic (PubMed:33883744). In response to inflammasome-activating signals, cleaved and secreted (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).

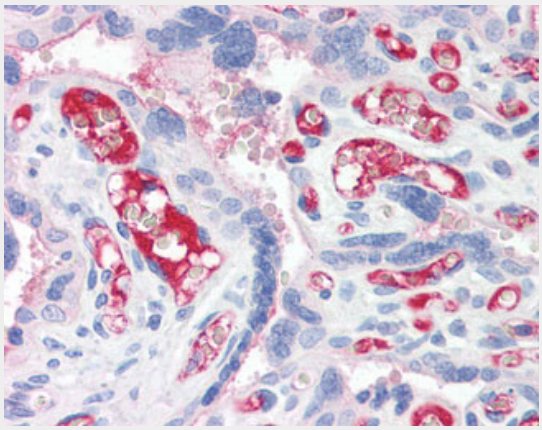
Volume
50 µl

IL18 Antibody - Protocols

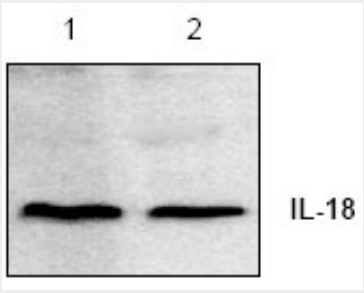
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

IL18 Antibody - Images



Anti-IL-18 antibody IHC of human placenta.



Western blot of human IL-18 expression with Jurkat cell lysate (Lanes 1 & 2).

IL18 Antibody - Background

Augments natural killer cell activity in spleen cells and stimulates interferon gamma production in T-helper type I cells.

IL18 Antibody - References

Ushio S.,et al.J. Immunol. 156:4274-4279(1996).
Gaggero A.,et al.Oncogene 23:7552-7560(2004).
Yong D.,et al.Submitted (JUL-1998) to the EMBL/GenBank/DDBJ databases.
Liu J.,et al.Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases.
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.