

### **IL-18 Antibody**

Rabbit Polyclonal Antibody Catalog # ABV10864

## **Specification**

## **IL-18 Antibody - Product Information**

**Application** WB, IHC **Primary Accession** 014116 Other Accession AAC27787 Reactivity Human Host **Rabbit** Clonality **Polyclonal** Isotype Rabbit IgG Calculated MW 22326

## **IL-18 Antibody - Additional Information**

**Gene ID 3606** 

Positive Control Application & Usage Recombinant human IL-18 Western blot analysis (0.5-4  $\mu$ g/ml). However, the optimal conditions should be determined individually. Recombinant human IL-18 can be used as a positive control.

#### **Other Names**

IL-18, IL18, IL 18, Interluekin-18, Interluekin 18, interluekin

Target/Specificity

IL-18

**Antibody Form** 

Liquid

**Appearance** 

Colorless liquid

#### **Formulation**

 $100~\mu g$  (0.5 mg/ml) affinity purified rabbit anti-human IL-18 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 5 mM EDTA and 0.01% thimerosal.

#### Handling

The antibody solution should be gently mixed before use.

**Reconstitution & Storage** 

-20 °C

**Background Descriptions** 



#### **Precautions**

IL-18 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### **IL-18 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:<a

href="http://www.uniprot.org/citations/10653850" target="\_blank">10653850</a>). Upon binding to IL18R1 and IL18RAP, forms a signaling ternary complex which activates NF-kappa-B, triggering synthesis of inflammatory mediators (PubMed:<a

href="http://www.uniprot.org/citations/14528293" target="\_blank">14528293</a>, PubMed:<a href="http://www.uniprot.org/citations/25500532" target="\_blank">25500532</a>, PubMed:<a href="http://www.uniprot.org/citations/37993714" target="\_blank">37993714</a>). Synergizes with IL12/interleukin-12 to induce IFNG synthesis from T-helper 1 (Th1) cells and natural killer (NK) cells (PubMed:<a href="http://www.uniprot.org/citations/10653850"

target="\_blank">10653850</a>). 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:<a href="http://www.uniprot.org/citations/33883744" target=" blank">33883744</a>).

#### **Cellular Location**

Cytoplasm, cytosol. Secreted. Note=The precursor is cytosolic (PubMed:33883744). In response to inflammasome-activating signals, cleaved and secreted (PubMed:33883744, PubMed:37993712, PubMed:37993714). Mature form is secreted and released in the extracellular milieu by passing through the gasdermin-D (GSDMD) pore (PubMed:33883744, PubMed:37993714). In contrast, the precursor form is not released, due to the presence of an acidic region that is proteolytically removed by CASP1, CASP4 or CASP5 during maturation (PubMed:33883744, PubMed:37993714). The secretion is dependent on protein unfolding and facilitated by the cargo receptor TMED10 (PubMed:32272059).

## **Tissue Location**

[Isoform 2]: Expressed in ovarian carcinoma but undetectable in normal ovarian epithelial cells. Resistant to proteolytic activation by caspase-1 and -4

# **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 Cytomety
- Cell Culture

#### IL-18 Antibody - Images





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# IL-18 Antibody - Background

Interleukin-18 (IL-18), an 18 kDa cytokine, is a single, non-glycosylated polypeptide chain containing 157 amino acids. IL-18 was previously known as interferon-g inducing factor (IGIF). This pleiotropic cytokine is produced by monocyte/macrophage cells. Like IL-12, IL-18 plays an important role in cell-mediated immune responses.