

**IL-18 Blocking Peptide**  
**Catalog # PBV10484b****Specification**

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**IL-18 Blocking Peptide - Product Information**

|                   |                          |
|-------------------|--------------------------|
| Primary Accession | <a href="#">Q14116</a>   |
| Other Accession   | <a href="#">AAC27787</a> |
| Gene ID           | <b>3606</b>              |
| Calculated MW     | <b>22326</b>             |

**IL-18 Blocking Peptide - Additional Information****Gene ID** 3606**Application & Usage**

The peptide is used for blocking the antibody activity of active IL-18. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30 minutes at 37°C

**Other Names**

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

**Target/Specificity**

IL-18

**Formulation**

50 µg (0.2 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 0.1% BSA and 0.02% thimerosal.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

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

**IL-18 Blocking Peptide - 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 Blocking Peptide - 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](#)

### **IL-18 Blocking Peptide - Images**