

## **Anti-IL-18 Reference Antibody (ABT-325)**

Recombinant Antibody Catalog # APR10737

## **Specification**

## Anti-IL-18 Reference Antibody (ABT-325) - Product Information

Application FC, Kinetics, Animal Model Primary Accession 014116

Reactivity

Clonality

Monoclonal
Isotype

Calculated MW 146.28 KDa

## Anti-IL-18 Reference Antibody (ABT-325) - Additional Information

Target/Specificity

IL-18

**Endotoxin** 

< 0.001EU/ µg,determined by LAL method.

**Conjugation** Unconjugated

**Expression system** 

CHO Cell

# **Format**

Purified monoclonal antibody supplied in PBS, pH6.0, without preservative. This antibody is purified through a protein A column.

## Anti-IL-18 Reference Antibody (ABT-325) - 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**

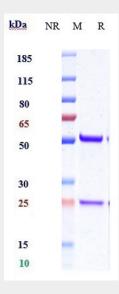
[Isoform 2]: Expressed in ovarian carcinoma but undetectable in normal ovarian epithelial cells. Resistant to proteolytic activation by caspase-1 and -4

#### Anti-IL-18 Reference Antibody (ABT-325) - Protocols

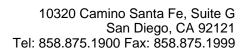
Provided below are standard protocols that you may find useful for product applications.

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

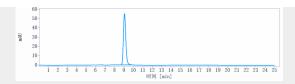
### Anti-IL-18 Reference Antibody (ABT-325) - Images



Anti-IL-18 Reference Antibody (ABT-325) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%







The purity of Anti-IL-18 Reference Antibody (ABT-325) is more than 95% , determined by SEC-HPLC.