

**Anti-IL-18 Reference Antibody (Camoteskimab)**  
**Recombinant Antibody**  
**Catalog # APR10064**

**Specification**

---

**Anti-IL-18 Reference Antibody (Camoteskimab) - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | FC, E, FTA             |
| Primary Accession | <a href="#">Q14116</a> |
| Reactivity        | Cynomolgus, Human      |
| Clonality         | Monoclonal             |
| Isotype           | IgG1                   |
| Calculated MW     | 146.34 KDa             |

**Anti-IL-18 Reference Antibody (Camoteskimab) - 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.

**Storage**  
-80°C for 2 years under sterile conditions □ -20°C for 1 year under sterile conditions □ Avoid repeated freeze-thaw cycles.

**Anti-IL-18 Reference Antibody (Camoteskimab) - 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](http://www.uniprot.org/citations/10653850)). Upon binding to IL18R1 and IL18RAP, forms a signaling ternary complex which activates NF-kappa-B, triggering synthesis of inflammatory mediators (PubMed:[14528293](http://www.uniprot.org/citations/14528293)), PubMed:[14528293](http://www.uniprot.org/citations/14528293)).

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

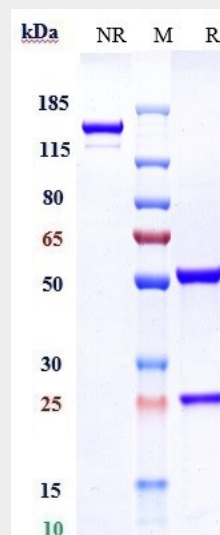
[Isoform 2]: Expressed in ovarian carcinoma but undetectable in normal ovarian epithelial cells. Resistant to proteolytic activation by caspase-1 and -4

## Anti-IL-18 Reference Antibody (Camoteskimab) - Protocols

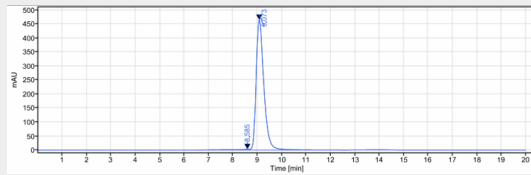
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

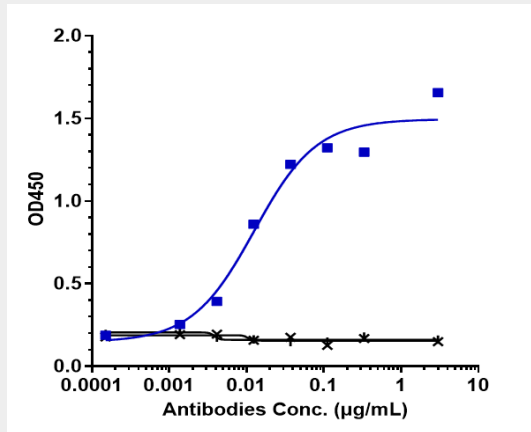
## Anti-IL-18 Reference Antibody (Camoteskimab) - Images



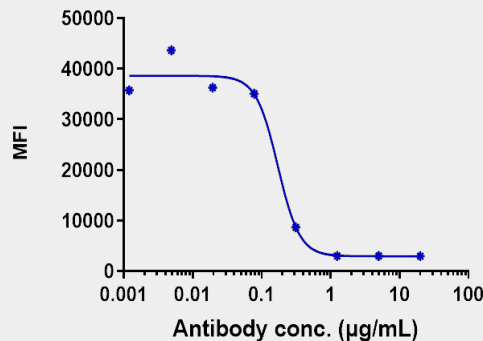
Anti-IL-18 Reference Antibody (Camoteskimab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



The purity of Anti-IL-18 Reference Antibody (Camoteskimab) is more than 98.41%, determined by SEC-HPLC.



Immobilized human IL 18 C His at 2 µg/mL can bind Anti-IL-18 Reference Antibody (Camoteskimab)  $EC_{50} = 0.0126 \mu\text{g/mL}$



Anti-IL-18 Reference Antibody (Camoteskimab)-induced FACS Blocking activity was evaluated using Hu IL-18R $\alpha$ &IL-18R $\beta$  HEK293-. The IC<sub>50</sub> was approximately 0.172 µg/mL .