

# IL-18 Rabbit mAb

Catalog # AP75611

## Product Information

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Application	WB, IHC-P
Primary Accession	<a href="#">Q14116</a>
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	22326

## Additional Information

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Gene ID	3606
Other Names	IL18
Dilution	WB~~1/500-1/1000 IHC-P~~N/A
Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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Name	IL18 ( <a href="#">HGNC:5986</a> )
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="#">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="#">14528293</a> , PubMed: <a href="#">25500532</a> , PubMed: <a href="#">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="#">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="#">33883744</a> ).
Cellular Location	Cytoplasm, cytosol. Secreted. Note=The precursor is cytosolic (PubMed: <a href="#">33883744</a> ). In response to inflammasome-activating signals, cleaved and secreted (PubMed: <a href="#">33883744</a> , PubMed: <a href="#">37993712</a> , PubMed: <a href="#">37993714</a> ). Mature form is secreted and released in the extracellular milieu by passing through the gasdermin-D (GSDMD) pore (PubMed: <a href="#">33883744</a> ,

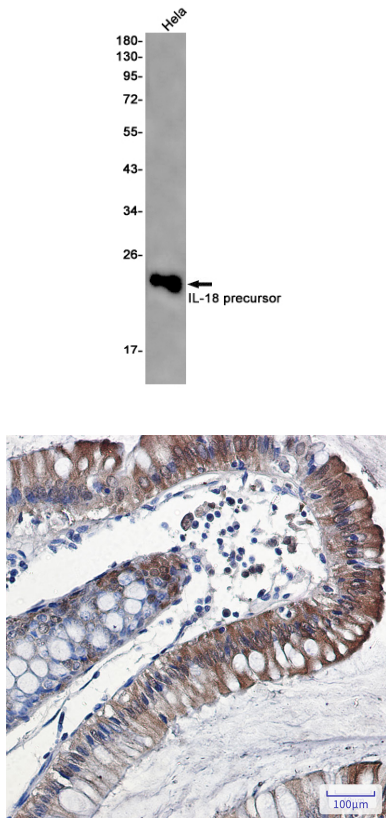
PubMed:37993714). In contrast, the precursor form is not released, due to the presence of an acidic region that is proteolytically removed by CASP1, CASP4 or CASP5 during maturation (PubMed:33883744, PubMed:37993714). The secretion is dependent on protein unfolding and facilitated by the cargo receptor 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

## Images

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.