10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# IL18 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20583c

## Product Information

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| **Application** | WB, IHC-P, IF, FC, E |
| **Primary Accession** | Q14116 |
| **Reactivity** | Human |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB48154 |
| **Calculated MW** | 22326 |

## Additional Information

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| **Gene ID** | 3606 |
| **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** | This IL18 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 155-188 amino acids from the C-terminal region of human IL18. |
| **Dilution** | WB~~1:1000 IHC-P~~1:100~500 IF~~1:25 FC~~1:25 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | IL18 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | IL18 ( HGNC:5986) |
| **Synonyms** | IGIF, IL1F4 |
| **Function** | Pro-inflammatory cytokine primarily involved in epithelial barrier repair, |

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|---|---|
| | polarized T-helper 1 (Th1) cell and natural killer (NK) cell immune responses (PubMed:10653850). Upon binding to IL18R1 and IL18RAP, forms a signaling ternary complex which activates NF-kappa-B, triggering synthesis of inflammatory mediators (PubMed:14528293, PubMed:25500532, PubMed:37993714). Synergizes with IL12/interleukin-12 to induce IFNG synthesis from T-helper 1 (Th1) cells and natural killer (NK) cells (PubMed:10653850). 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:33883744). |
| **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 |

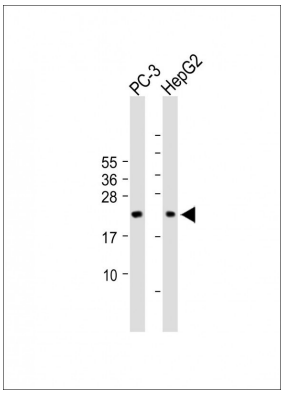
## Background

Augments natural killer cell activity in spleen cells and stimulates interferon gamma production in T-helper type I cells.

## References

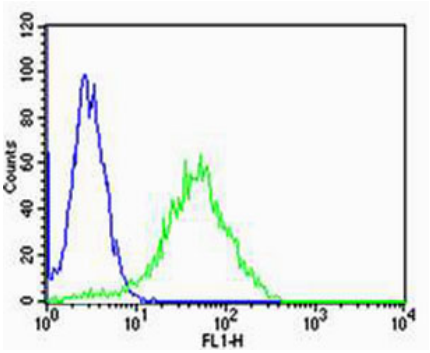

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Gaggero A.,et al.Oncogene 23:7552-7560(2004).
Yong D.,et al.Submitted (JUL-1998) to the EMBL/GenBank/DDBJ databases.
Liu J.,et al.Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases.
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.


## Images

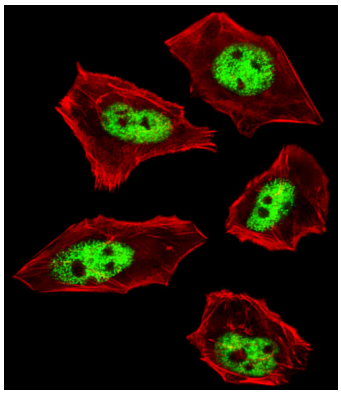



All lanes : Anti-IL18 Antibody (C-term) at 1:2000 dilution Lane 1: PC-3 whole cell lysate Lane 2: HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 22kDa Blocking/Dilution buffer: 5% NFDM/TBST.

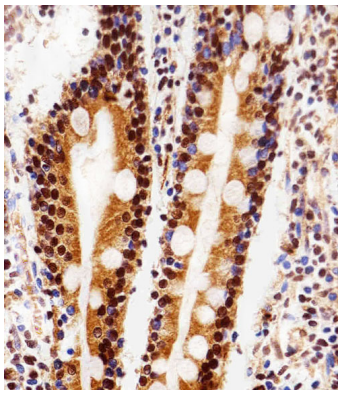
Flow cytometric analysis of Hela cells using IL18 Antibody (C-term)(green, Cat#AP20583c) compared to an isotype control of rabbit IgG(blue). AP20583c was diluted at 1:25




dilution. An Alexa Fluor® 488 goat anti-rabbit lgG at 1:400 dilution was used as the secondary antibody.



Fluorescent image of U251 cells stained with IL18 Antibody (C-term) (Cat#AP20583c). AP20583c was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit lgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).



Immunohistochemical analysis of paraffin-embedded H. small intestine section using IL18 Antibody (C-term)(Cat#AP20583c). AP20583c was diluted at 1:100 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.

## Citations

- Expression and clinical value of NLRP1 and NLRC4 inflammasomes in prostate cancer

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