

IL18 Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20583c

Specification

IL18 Antibody (C-term) - Product Information

Application	IF, WB, IHC-P, FC,E
Primary Accession	Q14116
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG

IL18 Antibody (C-term) - Additional Information

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

IF~~1:25
WB~~1:1000
IHC-P~~1:25
FC~~1:25

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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.

IL18 Antibody (C-term) - 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](#)). 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

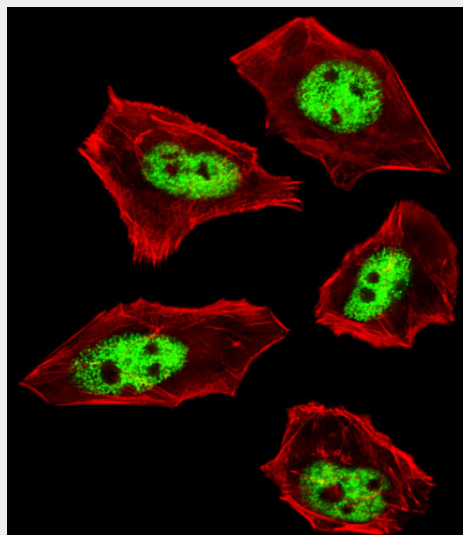
[Isoform 2]: Expressed in ovarian carcinoma but undetectable in normal ovarian epithelial cells. Resistant to proteolytic activation by caspase-1 and -4

IL18 Antibody (C-term) - Protocols

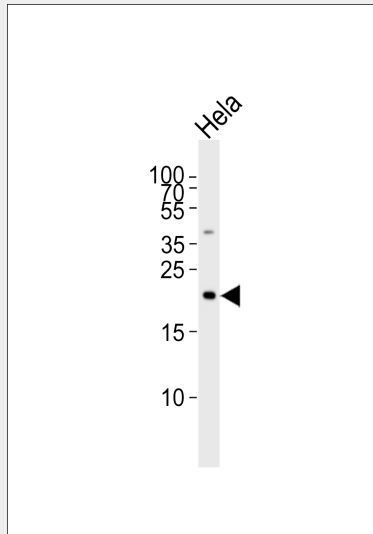
Provided below are standard protocols that you may find useful for product applications.

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

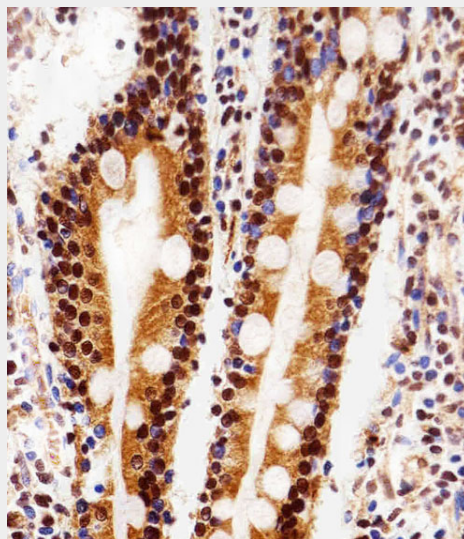
IL18 Antibody (C-term) - Images



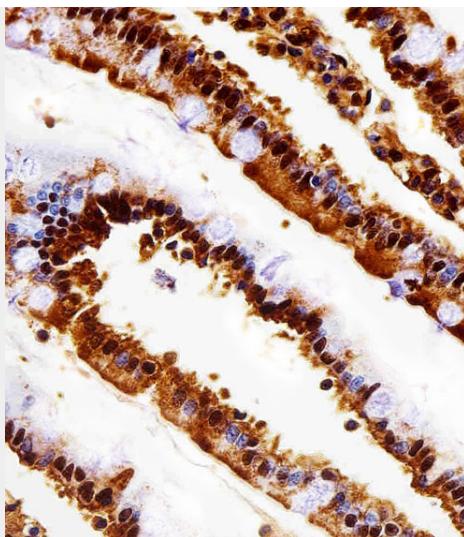
Fluorescent image of U251 cells stained with IL18 Antibody (C-term) (Cat#AP20583c). AP20583c was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated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



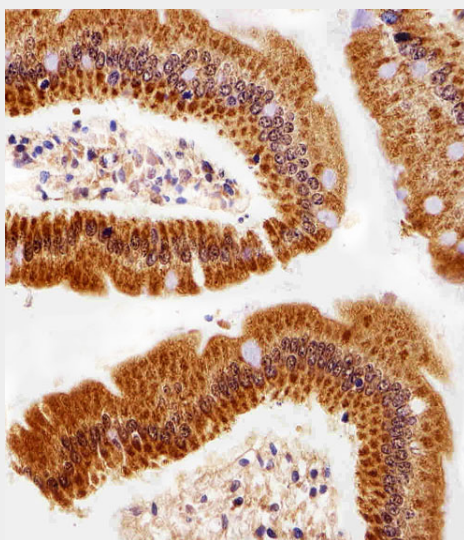
Western blot analysis of lysate from HeLa cell line, using IL18 Antibody (C-term) (Cat. #AP20583c). AP20583c was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.



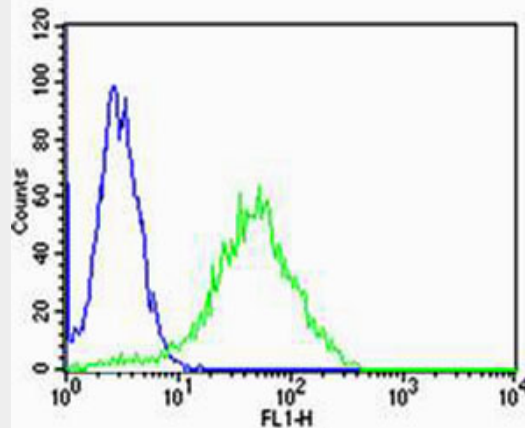
Immunohistochemical analysis of paraffin-embedded H. small intestine section using IL18 Antibody (C-term)(Cat#AP20583c). AP20583c was diluted at 1:100 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



Immunohistochemical analysis of paraffin-embedded R. 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.



Immunohistochemical analysis of paraffin-embedded M. 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.



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 IgG at 1:400 dilution was used as the secondary antibody.

IL18 Antibody (C-term) - Background

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

IL18 Antibody (C-term) - References

Ushio S.,et al.J. Immunol. 156:4274-4279(1996).
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.

IL18 Antibody (C-term) - Citations

- [Expression and clinical value of NLRP1 and NLRC4 inflammasomes in prostate cancer](#)