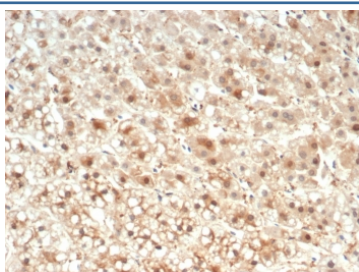


## IL-18 Antibody [clone IL18/4624] (V4198)

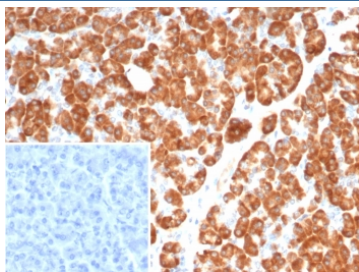
Catalog No.	Formulation	Size
V4198-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4198-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4198SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

[Bulk quote request](#)

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG2, kappa
<b>Clone Name</b>	IL18/4624
<b>Purity</b>	Protein A/G affinity
<b>UniProt</b>	Q14116
<b>Localization</b>	Secreted
<b>Applications</b>	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT
<b>Limitations</b>	This IL-18 antibody is available for research use only.



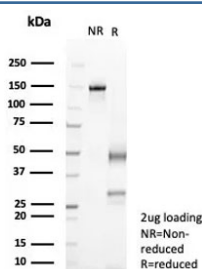
IHC staining of FFPE human kidney tissue with IL-18 antibody (clone IL18/4624) at 2ug/ml. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human pancreas tissue with IL-18 antibody (clone IL18/4624) at 2ug/ml. Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Analysis of a HuProt(TM) microarray containing more than 19,000 full-length human proteins using IL-18 antibody (clone IL18/4624). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD&#39;s) above the mean value of all signals generated on that array. If targets on HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD&#39;s) between the Z-score. S-score therefore represents the relative target specificity of a mAb to its intended target. A mAb is considered to specific to its intended target, if the mAb has an S-score of at least 2.5. For example, if a mAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that mAb to protein X is equal to 29.



SDS-PAGE analysis of purified, BSA-free IL-18 antibody (clone IL18/4624) as confirmation of integrity and purity.

## Description

Four structurally related IL-1 receptor ligands have been described. These include three agonists designated IL-1Alpha, IL-1beta and IL-1gamma/IL-18 and a specific receptor antagonist, IL-1RA1pha. IL-1Alpha and IL-1beta play critical roles in the regulation of the immune response and inflammation, serving as activators of T and B lymphocytes and NK (natural killer) cells. IL-18 (also referred to as IL-1gamma) has been shown to augment the secretion of IFN-gamma from T lymphocytes and increase NK cell activity in spleen cells. IL-18 exhibits 19% and 12% identity with IL-1Alpha and IL-1beta respectively over the 12 beta-strands of the beta-trefoil fold domain, which is a signature feature of the IL-1 family. The unusual leader sequence of IL-18 may be analogous to the IL-1beta pro-domain which must be cleaved by the serine protease ICE for optimal secretion and biological activity. Originally described as IGIF (IFN-gamma-inducing factor), IL-18 is induced by mouse liver subsequent to challenge with lipopolysaccharide (LPS).

## Application Notes

Optimal dilution of the IL-18 antibody should be determined by the researcher.

## Immunogen

A recombinant partial protein (within amino acids 1-193) from the human protein was used as the immunogen for the IL-18 antibody.

## Storage

Aliquot the IL-18 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

