

Anti-IL-18 Antibody [AH10-41]

EM170401



Product Type:	Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human
Applications:	ELISA(Det), WB, ICC, IHC-P
Molecular Wt:	22 kDa
Clone number:	AH10-41

Description: Interleukin-18 (IL-18) has been identified as a molecule that induces IFN-g production and enhances NK cell cytotoxicity. IL-18 receptor (IL-18R) is a type I membrane protein present in lung, leukocytes, spleen, liver, thymus, prostate, small intestine, colon, placenta and heart, absent from brain, skeletal muscle, pancreas and kidney. IL-18R is present in Hodgkin's disease cell lines, and does not bind IL-1 α or IL-1 β . The association of IL-18 to IL-18R leads to activation of NF κ B. At present two subunits of IL-18R have been characterized: IL-18R α and IL-18R β . IL-18R α has been described as the ligand-binding chain and IL-18R β as the signal-transduction chain.

Immunogen: recombinant protein

Positive control: A431, PC-12, Hela, human tonsil tissue, human spleen tissue.

Subcellular location: Secreted.

Database links: SwissProt: Q14116 Human

Recommended Dilutions:

WB	1:1,000
ICC	1:50-1:200
IHC-P	1:50-1:200
ELISA	1:5,000-1:10,000

Storage Buffer: 1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.06% Sodium Azide.

Storage Instruction: Store at -20 °C. Stable for 12 months from date of receipt.

Purity: Protein G affinity purified.



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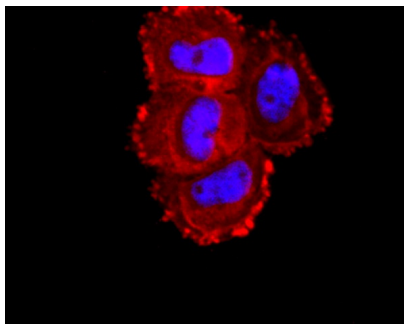


Fig1: ICC staining IL18 in A431 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

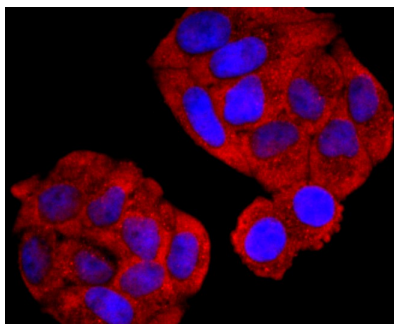


Fig2: ICC staining IL18 in HeLa cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

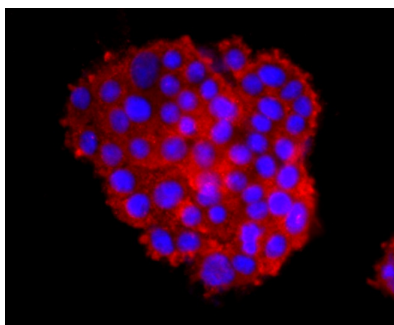


Fig3: ICC staining IL18 in PC-12 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

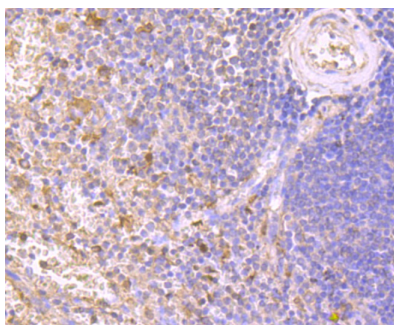


Fig4: Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-IL18 Tubulin antibody. Counter stained with hematoxylin.

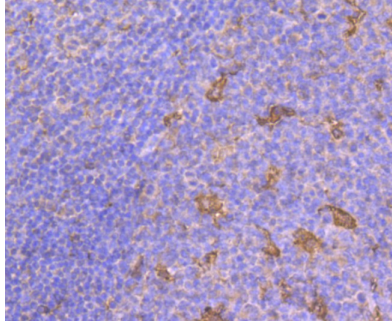


Fig5: Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-IL18 antibody. Counter stained with hematoxylin.

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

Background References

1. Vermot-Desroches, C., Subiger, O., Guenot, F., Sergent, E., Bonnin, B. and Wijdenes, J. 2005. Monoclonal antibodies specific for the IL-18 receptor. *Cell. Immunol.* 236: 101-104.
2. Zhou, Y., Yamaguchi, E., Fukui, Y., Konno, S., Maeda, Y., Kimata, K. and Nishimura, M. 2005. Enhanced expression of interleukin-18 receptor α chain by CD4⁺ T cells in sarcoidosis. *Chest* 128: 2497-2503.