

For Research Use Only

# IL-18 Recombinant antibody

Catalog Number: 82907-1-RR

Featured Product



## Basic Information

### Catalog Number:

82907-1-RR

### Size:

100ul, Concentration: 1000 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1063

### GenBank Accession Number:

BC007461

### GeneID (NCBI):

3606

### UNIPROT ID:

Q14116

### Full Name:

IL-18

### Calculated MW:

193 aa, 22 kDa

### Observed MW:

22 kDa

### Purification Method:

Protein A purification

### CloneNo.:

1H14

### Recommended Dilutions:

WB 1:2000-1:10000

IHC 1:200-1:800

IF/ICC 1:125-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

### Species Specificity:

human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : A549 cells, HeLa cells, U2OS cells

IHC : human tonsillitis tissue,

IF/ICC : HeLa cells,

## Background Information

IL-18 is a proinflammatory cytokine involved in the development of Th1 cells and in immune response. It can stimulate the NK cells and certain T cells to release IFN gamma which plays an important role in activating the macrophages or other cells. IL-18 has been demonstrated to have the potential to enhance Fas ligand-mediated cytotoxicity, which is increased in PE and regulates placental apoptosis. IL-18 is synthesized as a 22 kDa precursor and then cleaved into a biologically active 18 kDa form.

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

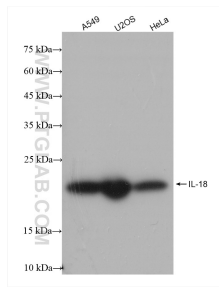
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

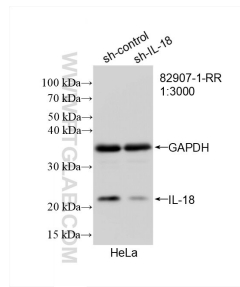
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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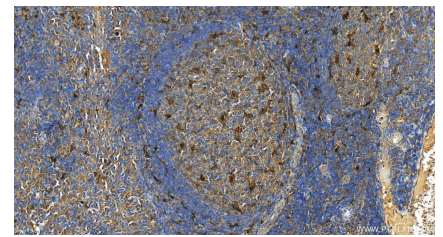
## Selected Validation Data



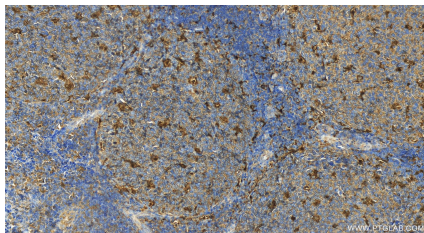
Various lysates were subjected to SDS PAGE followed by western blot with 82907-1-RR (IL-18 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



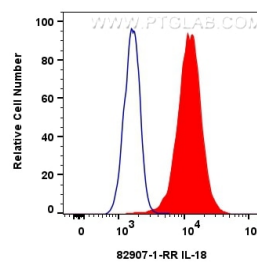
WB result of IL-18 antibody (82907-1-RR; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-IL-18 transfected HeLa cells.



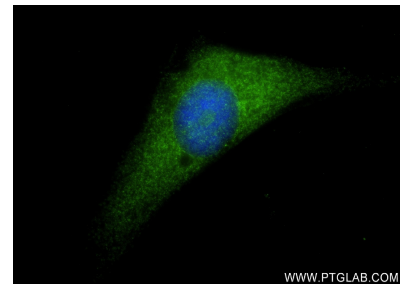
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 82907-1-RR (IL-18 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



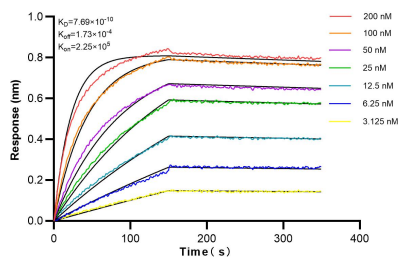
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 82907-1-RR (IL-18 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



$1 \times 10^6$  HeLa cells were intracellularly stained with 0.25  $\mu$ g IL-18 Recombinant antibody (82907-1-RR, Clone:1H14) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25  $\mu$ g Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using IL-18 antibody (82907-1-RR, Clone: 1H14) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 82907-1-RR against Human IL-18 were performed. The affinity constant is 0.769 nM.