

For Research Use Only

# CXCL10/IP-10 Polyclonal antibody

Catalog Number: 10937-1-AP

Featured Product

50 Publications



## Basic Information

### Catalog Number:

10937-1-AP

### Size:

150ul, Concentration: 3000 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1369

### GenBank Accession Number:

BC010954

### GeneID (NCBI):

3627

### UNIPROT ID:

P02778

### Full Name:

chemokine (C-X-C motif) ligand 10

### Calculated MW:

11 kDa

### Observed MW:

11 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:500-1:2000

IHC: 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human

### Cited Species:

human, mouse, rat

**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:** IFN gamma, LPS and Brefeldin A treated THP-1 cells,

**IHC:** human hepatocirrhosis tissue, human liver cancer tissue, human nasopharyngeal carcinoma tissue, human ovary tumor tissue

## Background Information

CXCL10 (also known as IP-10) is a member of the CXC chemokine family which binds to the CXCR3 receptor to exert its biological effects. CXCL10 is a 12-kDa protein and constitutes two internal disulfide cross bridges. The predicted signal peptidase cleavage generates a 10-kDa secreted polypeptide with four conserved cysteine residues in the N-terminal. The CXCL10 gene localizes on chromosome 4 at band q21, a locus associated with an acute monocytic/B-lymphocyte lineage leukemia exhibiting translocation of t (4; 11) (q21; q23). CXCL10 mediates leukocyte trafficking, adaptive immunity, inflammation, haematopoiesis and angiogenesis. Under proinflammatory conditions CXCL10 is secreted from a variety of cells, such as leukocytes, activated neutrophils, eosinophils, monocytes, epithelial cells, endothelial cells, stromal cells (fibroblasts) and keratinocytes in response to IFN- $\gamma$ .

## Notable Publications

Author	Pubmed ID	Journal	Application
Yuanfeng Wei	34765295	Am J Cancer Res	IHC
Ying Jiang	34655920	Mol Immunol	WB,IHC
Taoyuan Lu	35711443	Front Immunol	IHC

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

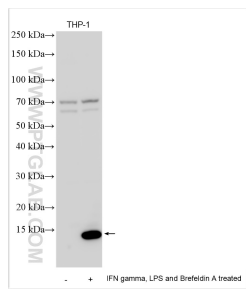
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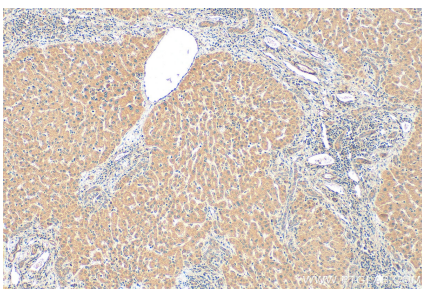
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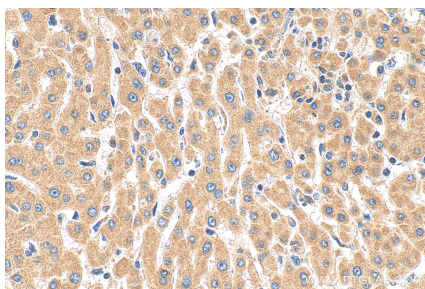
## Selected Validation Data



Untreated, IFN gamma, LPS and Brefeldin A treated THP-1 cells were subjected to SDS PAGE followed by western blot with 10937-1-AP (CXCL10/IP-10 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human hepatocirrhosis tissue slide using 10937-1-AP (CXCL10/IP-10 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human hepatocirrhosis tissue slide using 10937-1-AP (CXCL10/IP-10 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).