

Anti-CXCL10/IP-10 Antibody
Catalog # ABO10719**Specification**

Anti-CXCL10/IP-10 Antibody - Product Information

Application	WB, IHC-P
Primary Accession	P02778
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for C-X-C motif chemokine 10(CXCL10) detection. Tested with WB, IHC-P in Human.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-CXCL10/IP-10 Antibody - Additional Information

Gene ID 3627

Other Names

C-X-C motif chemokine 10, 10 kDa interferon gamma-induced protein, Gamma-IP10, IP-10, Small-inducible cytokine B10, CXCL10(1-73), CXCL10, INP10, SCYB10

Calculated MW

10881 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat

Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization

Secreted.

Protein Name

C-X-C motif chemokine 10

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human IP10(79-98aa SKAIKNLLKAVSKERSKRSP).

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the intercrine alpha (chemokine CxCL10) family.

Anti-CXCL10/IP-10 Antibody - Protein Information

Name CXCL10

Synonyms INP10, SCYB10

Function

Pro-inflammatory cytokine that is involved in a wide variety of processes such as chemotaxis, differentiation, and activation of peripheral immune cells, regulation of cell growth, apoptosis and modulation of angiostatic effects (PubMed: [11157474](http://www.uniprot.org/citations/11157474), PubMed: [22652417](http://www.uniprot.org/citations/22652417), PubMed: [7540647](http://www.uniprot.org/citations/7540647)). Plays thereby an important role during viral infections by stimulating the activation and migration of immune cells to the infected sites (By similarity). Mechanistically, binding of CXCL10 to the CXCR3 receptor activates G protein-mediated signaling and results in downstream activation of phospholipase C-dependent pathway, an increase in intracellular calcium production and actin reorganization (PubMed: [12750173](http://www.uniprot.org/citations/12750173), PubMed: [19151743](http://www.uniprot.org/citations/19151743)). In turn, recruitment of activated Th1 lymphocytes occurs at sites of inflammation (PubMed: [12663757](http://www.uniprot.org/citations/12663757), PubMed: [12750173](http://www.uniprot.org/citations/12750173)). Activation of the CXCL10/CXCR3 axis also plays an important role in neurons in response to brain injury for activating microglia, the resident macrophage population of the central nervous system, and directing them to the lesion site. This recruitment is an essential element for neuronal reorganization (By similarity).

Cellular Location

Secreted.

Tissue Location

Mainly secreted by monocytes, endothelial cells as well as fibroblasts. Expressed by epithelial cells in thymus (PubMed:11157474). Microglial cells produce CXCL10 in response to viral stimulation (PubMed:12663757).

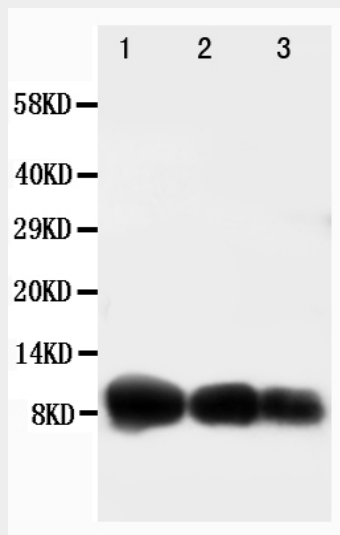
Anti-CXCL10/IP-10 Antibody - Protocols

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

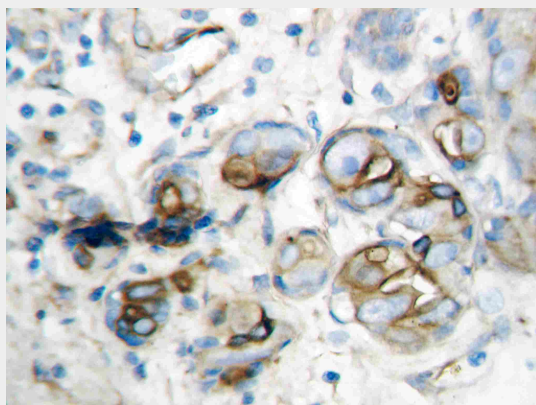
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-CXCL10/IP-10 Antibody - Images



Anti-IP10 antibody, ABO10719, Western blotting
Lane 1: Recombinant Human CXCL10 Protein 10ng
Lane 2: Recombinant Human CXCL10 Protein 5ng
Lane 3: Recombinant Human CXCL10 Protein 2.5ng



Anti-IP10 antibody, ABO10719, IHC(P) IHC(P): Human Mammary Cancer Tissue

Anti-CXCL10/IP-10 Antibody - Background

C-X-C motif chemokine 10 (CXCL10), also known as Interferon gamma-induced protein 10 kDa (IP-10) or small-inducible cytokine B10, is a protein that in humans is encoded by the CXCL10 gene. It is a small cytokine belonging to the CXC chemokine family. The gene for CXCL10 is located on human chromosome 4 in a cluster among several other CXC chemokines. Luster et al. (1987) reported the isolation of an interferon-inducible gene that encodes a 98-amino acid protein called IP10. The chemokine IFN-gamma-inducible protein 10 (IP-10; CXCL10), a CXC chemokine, and its receptor, CXCR3, were found to be overexpressed in lymph node cells of EAMG rats. IP10 inhibits bone marrow colony formation, has antitumor activity in vivo, is a chemoattractant for human monocytes and T cells, and promotes T cell adhesion to endothelial cells.