

**Anti-CXCL10 / IP-10 Antibody (clone 1H7D6)**  
**Mouse Anti Human Monoclonal Antibody**  
**Catalog # ALS17461****Specification**

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**Anti-CXCL10 / IP-10 Antibody (clone 1H7D6) - Product Information**

Application	WB, IHC-P, E
Primary Accession	<a href="#">P02778</a>
Predicted	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b,k
Calculated MW	10881

**Anti-CXCL10 / IP-10 Antibody (clone 1H7D6) - Additional Information****Gene ID 3627**Alias Symbol **CXCL10****Other Names**

CXCL10, C-X-C motif chemokine 10, Gamma-IP10, IP-10, Gamma IP10, GIP-10, Mob-1, Small-inducible cytokine B10, Crg-2, IFI10, INP10, SCYB10

**Target/Specificity**

Human IP10.

**Reconstitution & Storage**

Lyophilized from PBS, pH 7.4, 0.02% sodium azide. Store lyophilized at -20°C. The reconstituted product can be stored for short term at 4 °C or long term at -20 °C or below. Avoid freeze/thaw cycles.

**Precautions**

Anti-CXCL10 / IP-10 Antibody (clone 1H7D6) is for research use only and not for use in diagnostic or therapeutic procedures.

**Anti-CXCL10 / IP-10 Antibody (clone 1H7D6) - 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: [7540647](http://www.uniprot.org/citations/7540647), PubMed: [11157474](http://www.uniprot.org/citations/11157474), PubMed: [22652417](http://www.uniprot.org/citations/22652417)). 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:<a href="http://www.uniprot.org/citations/12750173" target="\_blank">12750173</a>, PubMed:<a href="http://www.uniprot.org/citations/19151743" target="\_blank">19151743</a>). In turn, recruitment of activated Th1 lymphocytes occurs at sites of inflammation (PubMed:<a href="http://www.uniprot.org/citations/12750173" target="\_blank">12750173</a>, PubMed:<a href="http://www.uniprot.org/citations/12663757" target="\_blank">12663757</a>). 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 (clone 1H7D6) - 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 (clone 1H7D6) - Images**