

**CXCL10/IP10 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP57998****Specification**

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**CXCL10/IP10 Polyclonal Antibody - Product Information**

Application	<b>IHC-P</b>
Primary Accession	<a href="#">P02778</a>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>10881</b>

**CXCL10/IP10 Polyclonal 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

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**CXCL10/IP10 Polyclonal 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:<a href="http://www.uniprot.org/citations/11157474" target="\_blank">11157474</a>, PubMed:<a href="http://www.uniprot.org/citations/22652417" target="\_blank">22652417</a>, PubMed:<a href="http://www.uniprot.org/citations/7540647" target="\_blank">7540647</a>). 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/12663757" target="\_blank">12663757</a>, PubMed:<a href="http://www.uniprot.org/citations/12663757" target="\_blank">12663757</a>, PubMed:<a href="http://www.uniprot.org/citations/12663757" target="\_blank">12663757</a>).

href="http://www.uniprot.org/citations/12750173" target="\_blank">12750173</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**

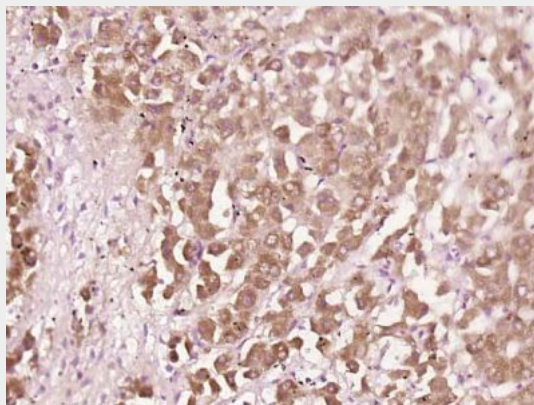
Mainly secreted by monocytes, endothelial cells as well as fibroblasts. Expressed by epithelial cells in thymus (PubMed:11157474). Microglial cells produce CXCL10 in response to viral stimulation (PubMed:12663757).

### **CXCL10/IP10 Polyclonal 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](#)

### **CXCL10/IP10 Polyclonal Antibody - Images**



Paraformaldehyde-fixed, paraffin embedded (Human liver cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CXCL10) Polyclonal Antibody, Unconjugated (bs-23238R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.