

**IP-10 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10868****Specification**

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**IP-10 Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB, E                  |
| Primary Accession | <a href="#">P02778</a> |
| Reactivity        | Human                  |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Isotype           | Rabbit IgG             |
| Calculated MW     | 10881                  |

**IP-10 Antibody - Additional Information****Gene ID 3627**

|                     |                                                                                                                                                            |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application & Usage | Western Blot analysis (0.5-1.0 µg/ml), Neutralization (10 µg/ml), and ELISA (2-4 µg/ml). However, the optimal condition should be determined individually. |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Other Names**

IP-10, IP10, IP 10, Cxcl10, CXCL10, CXCL-10, CXCL 10, C-X-C motif chemokine 10, Small-inducible cytokine B10; 10 kDa interferon-gamma-induced protein; Gamma-IP10; IP-10

**Target/Specificity**

IP-10

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (0.5 mg/ml) antigen affinity purified rabbit anti-human IP-10 polyclonal antibody in phosphate (PBS, pH 7.2) containing 50% glycerol, and 0.02% thimerosal.

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

IP-10 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## 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:<a href="http://www.uniprot.org/citations/7540647" target="\_blank">7540647</a>, 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>). 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).

## 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](#)

## IP-10 Antibody - Images

## IP-10 Antibody - Background

Human IP-10 is an 8.5 kDa protein produced by several cell types during the delayed type hypersensitivity response. IP-10 acts as a chemoattractant towards monocytes, lymphocytes, and

certain T cells.