

IP-10 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10869**Specification**

IP-10 Antibody - Product Information

Application	WB, E
Primary Accession	P48973
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	10729

IP-10 Antibody - Additional Information**Gene ID** 245920**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) purified rabbit anti-rat IP-10 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA, 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, Mob1, 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 (By similarity). 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. In turn, recruitment of activated Th1 lymphocytes occurs at sites of inflammation (By similarity). 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) (PubMed:30257241, PubMed:30448292).

Cellular Location

Secreted {ECO:0000250|UniProtKB:P02778}.

Tissue Location

In the central nervous system, CXCL10 is predominantly localized to activated neurons (PubMed:30448292) Expressed in both microglia and astrocytes (PubMed:30257241)

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.