10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-CXCL10/IP-10 Antibody

Catalog # ABO12382

Product Information

Application	WB, E
Primary Accession	P17515
Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for C-X-C motif chemokine 10(CXCL10) detection. Tested with WB, ELISA in Mouse.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	15945
Other Names	C-X-C motif chemokine 10, 10 kDa interferon gamma-induced protein, Gamma-IP10, IP-10, C7, Interferon-gamma induced protein CRG-2, Small-inducible cytokine B10, Cxcl10, Crg2, Ifi10, Inp10, Scyb10
Calculated MW	10789
Application Details	ELISA , 0.1-0.5 □g/ml, Mouse, - Western blot, 0.1-0.5 □g/ml, Mouse
Subcellular Localization	Secreted.
Tissue Specificity	Expressed in the spleen, thymus, lymph nodes and liver. .
Source	Eukaryota
Protein Name	C-X-C motif chemokine 10
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	E. coli-derived mouse IP10 recombinant protein (Position: I22-P98). Mouse IP10 shares 70.1% and 77.9% amino acid (aa) sequence identity with human and rat IP10, respectively.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20˚C for one year. After r˚Constitution, 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.

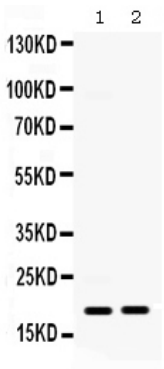
Protein Information

Name	Cxcl10
Synonyms	Crg2, Ifi10, 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 (By similarity) (PubMed:28623423). Plays thereby an important role during viral infections by stimulating the activation and migration of immune cells to the infected sites (PubMed:18624292, PubMed:19017990, PubMed:28468883). 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 (PubMed:15456824).
Cellular Location	Secreted {ECO:0000250|UniProtKB:P02778}.
Tissue Location	Expressed in the spleen, thymus, lymph nodes and liver (PubMed:8145049). Expressed in astrocytes, microglia, and neurons (PubMed:15456824).

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.

Images



Anti- IP10 Picoband antibody, ABO12382, Western blottingAll lanes: Anti IP10 (ABO12382) at 0.5ug/mlLane 1: Mouse Ovary Tissue Lysate at 50ugLane 2: HEPA Whole Cell Lysate at 40ugPredicted bind size: 11KDObserved bind size: 19KD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.