Human CXCL10/IP-10/CRG-2 Antibody

Monoclonal Mouse IgG_1 Clone # 33036

Catalog Number: MAB266

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CXCL10/IP-10/CRG-2 in ELISAs and Western blots. In Western blots, does not cross-react with recombinant human CXCL1, 2, 3, 5, 8, 9, 12/SDF-1β, recombinant mouse CXCL1, or 2.
Source	Monoclonal Mouse IgG_1 Clone # 33036
Purification	Protein A or G purified from ascites
Immunogen	*E. coli*-derived recombinant human CXCL10/IP-10/CRG-2 Val22-Pro98 Accession # P02778.2
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

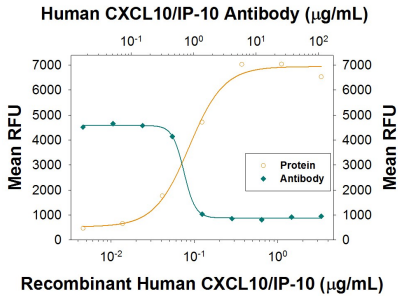
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	Recombinant Human CXCL10/IP-10/CRG-2 (Catalog # 266-IP)
Intracellular Staining by Flow Cytometry	2.5 µg/10^6 cells	Human peripheral blood monocytes treated with Recombinant Human IFN-γ (Catalog # 285-IF), fixed with paraformaldehyde, and permeabilized with saponin
Human CXCL10/IP-10 Sandwich Immunoassay		**Reagent**
ELISA Capture	2-8 µg/mL	Human CXCL10/IP-10/CRG-2 Antibody (Catalog # MAB266)
ELISA Detection	0.1-0.4 µg/mL	Human CXCL10/IP-10/CRG-2 Biotinylated Antibody (Catalog # BAF266)
Standard		Recombinant Human CXCL10/IP-10/CRG-2 (Catalog # 266-IP)
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	
Neutralization	Measured by its ability to neutralize CXCL10/IP-10/CRG-2-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CXCR3. The Neutralization Dose (ND_{50}) is typically 0.5-2.0 µg/mL in the presence of 0.2 µg/mL Recombinant Human CXCL10/IP-10/CRG-2.	

DATA

Neutralization



Chemotaxis Induced by CXCL10/IP-10 and Neutralization by Human CXCL10/IP-10 Antibody. Recombinant Human CXCL10/IP-10 (Catalog # 266-IP) chemoattracts the BaF3 mouse pro-B cell line transfected with human CXCR3 in a dose-dependent manner (orange line). The amount of cells that migrated through to the lower chemotaxis chamber was measured by Resazurin (Catalog # AR002). Chemotaxis elicited by Recombinant Human CXCL10/IP-10 (0.2 µg/mL) is neutralized (green line) by increasing concentrations of Mouse Anti-Human CXCL10/IP-10 Monoclonal Antibody (Catalog # MAB266). The ND_{50} is typically 0.5-2.0 µg/mL.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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BACKGROUND

CXCL10 was originally identified as an IFN-γ-inducible gene in monocytes, fibroblasts and endothelial cells. It has since been shown that CXCL10 mRNA is also induced by LPS, IL-1β, TNF-α, IL-12, and viruses. Additional cell types that have been shown to express CXCL10 include activated T-lymphocytes, splenocytes, keratinocytes, osteoblasts, astrocytes, and smooth muscle cells. CXCL10 is also expressed in psoriatic and lepromatous lesions of skin. The mouse homologue of human CXCL10, CRG-2, has been cloned and shown to share approximately 67% amino acid sequence identity with human CXCL10. Human CXCL10 cDNA encodes a 98 amino acid (aa) residue precursor protein with a 21 aa residue signal peptide that is cleaved to form the 77 aa residue secreted protein. The amino acid sequence of CXCL10 identified the protein as a member of the chemokine α subfamily that lacks the ELR domain. CXCL10 has been shown to be a chemoattractant for activated T-lymphocytes. CXCL10 has been reported to be a potent inhibitor of angiogenesis and to display a potent thymus-dependent antitumor effect. A chemokine receptor specific for CXCL10 and Mig has been cloned and shown to be highly expressed in IL-2-activated T-lymphocytes.

References:

1. Loetscher, M. *et al.* (1996) J. Exp. Med. **184**:963.
2. Wang, X. *et al.* (1996) J. Biol. Chem. **271**:24286.

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