Human CXCL10/IP-10/CRG-2 Antibody

Recombinant Monoclonal Mouse IgG_1 Clone # 33008R

Catalog Number: MAB2661

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CXCL10/IP-10/CRG-2 in direct ELISAs.
Source	Recombinant Monoclonal Mouse IgG_1 Clone # 33008R
Purification	Protein A or G purified from cell culture supernatant
Immunogen	*E. coli*-derived recombinant human CXCL10/IP-10/CRG-2 Val22-Pro98 Accession # P02778.2
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 either lyophilized or 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.*

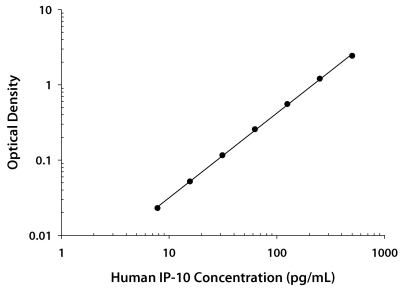
ELISA

This antibody functions as an ELISA capture antibody when paired with Goat Anti-Human CXCL10/IP-10/CRG-2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-266-NA).

This product is intended for assay development on various assay platforms requiring antibody pairs. We recommend the Human CXCL10/IP-10 DuoSet ELISA Kit (Catalog # DY266) for convenient development of a sandwich ELISA or the Human CXCL10/IP-10 Quantikine ELISA Kit (Catalog # DIP100) for a complete optimized ELISA.

DATA

ELISA



Human CXCL10/IP-10/CRG-2 ELISA Standard Curve. Recombinant Human CXCL10/IP-10/CRG-2 protein was serially diluted 2-fold and captured by Mouse Anti-Human CXCL10/IP-10/CRG-2 Monoclonal Antibody (Catalog # MAB2661) coated on a Clear Polystyrene Microplate (Catalog # DY990). Goat Anti-Human CXCL10/IP-10/CRG-2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-266-NA) was biotinylated and incubated with the protein captured on the plate. Detection of the standard curve was achieved by incubating Streptavidin-HRP (Catalog # DY998) followed by Substrate Solution (Catalog # DY999) and stopping the enzymatic reaction with Stop Solution (Catalog # DY994).

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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