### RD SYSTEMS a biotechne brand

# Human CXCL10/IP-10/CRG-2 Antibody

Recombinant Monoclonal Mouse IgG<sub>1</sub> Clone # 33036R Catalog Number: MAB266R

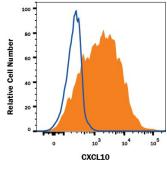
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human CXCL10/IP-10/CRG-2 in direct ELISAs.
Source	Recombinant Monoclonal Mouse IgG <sub>1</sub> Clone # 33036R
Purification	Protein A or G purified from cell culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human CXCL10/IP-10/CRG-2 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 either lyophilized or as a 0.2 μm filtered solution in PBS.

#### APPLICATIONS

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25 µg/10 <sup>6</sup> cells	See Below
Human CXCL10/IP-10 Sandwich Immunoass	ay	Reagent
ELISA Capture	2-8 µg/mL	Human CXCL10/IP-10/CRG-2 Antibody (Catalog # MAB266R)
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 conjugation.	using established conjugation methods. No BSA or other carrier proteins that could interfere with
Neutralization	transfected with hum	ity to neutralize CXCL10/IP-10/CRG-2-induced chemotaxis in the BaF3 mouse pro-B cell line nan CXCR3. The Neutralization Dose (ND <sub>50</sub> ) is typically 0.5-2.0 μg/mL in the presence of nant Human CXCL10/IP-10/CRG-2.

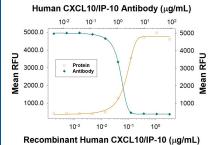


### Intracellular Staining by Flow Cytometry



Detection of CXCL10 in Human PBMCs by Flow Cytometry. Human PBMCs were treated with recombinant human INF gamma (Catalog # Catalog # 285-IF, 10 ng/ml) overnight and stained with Mouse Anti-Human CXCL10 Monoclonal Antibody (Catalog # MAB266R, filled histogram) or isotype control antibody (Catalog # Catalog # MAB002, open histogram) followed by anti-Mouse IgG PE-conjugated secondary antibody (Catalog # Catalog # F0102B). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # Catalog # FC005). View our protocol for Staining Membrane-associated Proteins.

### Neutralization



Chemotaxis Induced by CXCL10/IP-10 and Neutralization by Human CXCL10/IP-10 Antibody. Recombinant Human CXCL10/IP-10 (Catalog # 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 # 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<sub>50</sub> is typically 0.5-2.0 µg/mL.

#### PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.			
Shipping	g 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	<ul> <li>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</li> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>			

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#### BACKGROUND

CXCL10 was originally identified as an IFN- $\gamma$ -inducible gene in monocytes, fibroblasts and endothelial cells. It has since been shown that CXCL10 mRNA is also induced by LPS, IL-1 $\beta$ , TNF- $\alpha$ , 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  $\alpha$  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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