

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

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: BAF266

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human CXCL10/IP-10/CRG-2 in ELISAs and Western blots. In sandwich ELISAs, less than 0.1% cross-reactivity with recombinant mouse CRG-2, recombinant human (rh) Lymphotactin, rhGROα, and rhMIG is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	E. coli-derived recombinant human CXCL10/IP-10
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

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.					
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ntracellular Staining by Flow Cytometry	2.5 μg/10 <sup>6</sup> 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 Immunoas	say	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)			

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.	
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.	

## 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 (aa) sequence identity with human CXCL10. Human CXCL10 cDNA encodes a 98 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 anti-tumor 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.

