

Human CXCL10/IP-10/CRG-2 Alexa Fluor® 350-conjugated Antibody

Monoclonal Mouse IgG₁ Clone # 33036

Catalog Number: IC266U

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 reco			
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		
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm		
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.		
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Shee (SDS) for additional information and handling instructions.		

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		
Intracellular Staining by Flow Cytometry	0.25-1 μg/10 ⁶ cells	Human peripheral blood monocytes treated with Recombinant Human IFN-γ (Catalog # 285-IF), fixed with paraformaldehyde, and permeabilized with saponin		

PREPARATION AND STORAGE			
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.		
Stability & Storage	Protect from light. Do not freeze. ■ 12 months from date of receipt, 2 to 8 °C as supplied.		

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.

PRODUCT SPECIFIC NOTICES

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