RD SYSTEMS a biotechne brand

Human CXCL10/IP-10/CRG-2 Alexa Fluor® 647-conjugated Antibody

Recombinant Monoclonal Mouse IgG₁ Clone # 33036R Catalog Number: IC266RR

100 µg

Human		
Detects human CXCL10/IP-10/CRG-2 in direct ELISAs.		
Recombinant Monoclonal Mouse IgG ₁ Clone # 33036R		
Protein A or G purified from cell culture supernatant		
<i>E. coli</i> -derived recombinant human CXCL10/IP-10/CRG-2 Val22-Pro98 Accession # P02778.2		
Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm		

*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (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 PBMC treated with recombinant human IFN gamma (Catalog # 285-IF) and fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005)	

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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