

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF-266-NA

DESCRIPTION

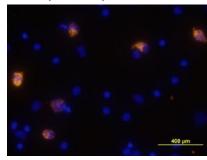
Species Reactivity	Human	
Specificity	Detects human CXCL10/IP-10/CRG-2 in direct ELISAs and Western blots.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	<i>E. coli-</i> derived recombinant human CXCL10/IP-10/CRG-2 Val22-Pro98 Accession # P02778	
Endotoxin Level	<0.20 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

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		
Immunocytochemistry	5-15 μg/mL	See Below		
Immunohistochemistry	1-15 µg/mL	See Below		
Intracellular Staining by Flow Cytometry	2.5 μg/10 ⁶ cells	Human peripheral blood monocytes treated with Recombinant Human IFN-γ (Catalog # 285-IF), fixed with paraformaldehyde, and permeabilized with saponin		
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.			
Neutralization	Measured by its ability to neutralize CXCL10/IP-10/CRG-2-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CXCR3. The Neutralization Dose (ND ₅₀) is typically 1-4 μg/mL in the presence of 0.2 μg/ml Recombinant Human CXCL10/IP-10/CRG-2.			
ELISA	This antibody functions as an ELISA Monoclonal Antibody (Catalog # MA	A detection antibody when paired with Mouse Anti-Human CXCL10/IP-10/CRG-2 B2661).		
	the Human CXCL10/IP-10 DuoSet E	evelopment on various assay platforms requiring antibody pairs. We recommend LISA Kit (Catalog # DY266) for convenient development of a sandwich ELISA or e ELISA Kit (Catalog # DIP100) for a complete optimized ELISA.		

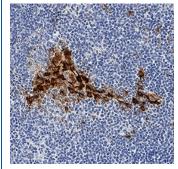
DATA

Immunocytochemistry



CXCL10/IP-10 in Human PBMCs. CXCL10/IP-10 was detected in immersion fixed PHAtreated human peripheral blood mononuclear cells (PBMCs) using 10 µg/mL Goat Anti-Human CXCL10/IP-10 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-266-NA) for 3 hours at room temperature. Cells were stained with the NorthernLights™ 557conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # Catalog # NL001) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Non-adherent Cells

Immunohistochemistry



CXCL10/IP-10/CRG-2 in Human Tonsil. CXCL10/IP-10/CRG-2 was detected in immersion fixed paraffin-embedded sections of human tonsil using Goat Anti-Human CXCL10/IP-10/CRG-2 Antigen Affinitypurified Polyclonal Antibody (Catalog # AF-266-NA) at 1 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Goat IgG VisUCyte™ HRP Polymer Antibody (Catalog # Catalog # VC004). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

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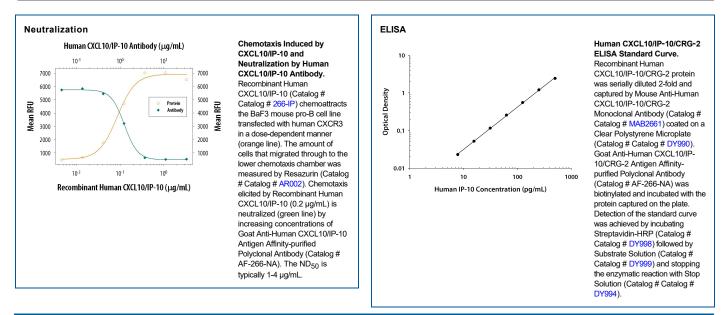


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Human CXCL10/IP-10/CRG-2 Antibody

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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. *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. 		

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 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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