

DESCRIPTION

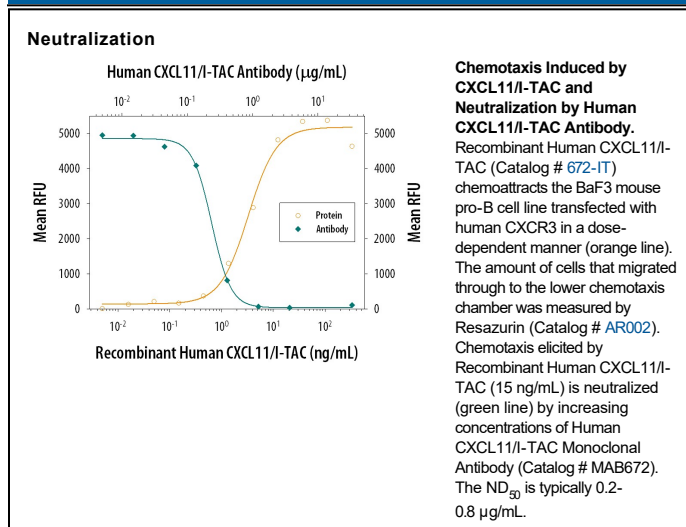
Species Reactivity	Human
Specificity	Detects human CXCL11/I-TAC in ELISAs and Western blots. In ELISAs, this antibody does not cross-react with recombinant human (rh) CXCL5, 7, 8, 9, or 10. In Western blots, this antibody shows less than 1% cross-reactivity with rhCXCL1, 2, 3, 5, 6, 7, IL-8/CXCL8, 9, 10, 13, CXCL12/SDF-1 α , CXCL12/SDF-1 β , rmCXCL1, 2, 6, 9, 10, CXCL12/SDF-1 α , rmCXCL13, rrCXCL1, CXCL3/CINC-2 α , CXCL3/CINC-2 β , or rpIL-8/CXCL8.
Source	Monoclonal Mouse IgG _{2A} Clone # 87328
Purification	Protein A or G purified from ascites
Immunogen	<i>E. coli</i> -derived recombinant human CXCL11/I-TAC Phe22-Phe94 Accession # O14625
Endotoxin Level	<0.10 EU per 1 μ g of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 μ m 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 μ m 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
Western Blot	1 μ g/mL	Recombinant Human CXCL11/I-TAC (Catalog # 672-IT)
Human CXCL11/I-TAC Sandwich Immunoassay		Reagent
ELISA Capture	2-8 μ g/mL	Human CXCL11/I-TAC Antibody (Catalog # MAB672)
ELISA Detection Standard	0.1-0.4 μ g/mL	Human CXCL11/I-TAC Biotinylated Antibody (Catalog # BAF672) Recombinant Human CXCL11/I-TAC (Catalog # 672-IT)
Neutralization	Measured by its ability to neutralize CXCL11/I-TAC-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CXCR3. The Neutralization Dose (ND ₅₀) is typically 0.2-0.8 μ g/mL in the presence of 15 ng/mL Recombinant Human CXCL11/I-TAC.	

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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. <ul style="list-style-type: none"> • 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

CXCL11, also known as I-TAC, SCYB9B, H174 and β -R1, is a non-ELR CXC chemokine. CXCL11 cDNA encodes a 94 amino acid (aa) residue precursor protein with a 21 aa residue putative signal sequence, which is cleaved to form the mature 73 aa residue protein. CXCL11 shares 36% and 37% amino acid sequence homology with IP-10 and MIG (two other known human non-ELR CXC chemokines), respectively. CXCL11 is expressed at low levels in normal tissues including thymus, spleen, and pancreas. The expression of CXCL11 mRNA is radically up regulated in IFN- γ and IL-1 stimulated astrocytes. Moderate increase in expression is also observed in stimulated monocytes. CXCL11 has potent chemoattractant activity for IL-2 activated T cells and transfected cell lines expressing CXCR3 but not freshly isolated T cells, neutrophils, or monocytes. The gene encoding CXCL11 has been mapped to chromosome 4.

References:

1. Cole, K. *et al.* (1998) *J. Exp. Med.* **187**:2009.
2. Sandhya Rani, M. *et al.* (1996) *J. Biol. Chem.* **271**:22878.
3. Lou, Y. *et al.* (1998) *J. Neurovirol.* **4**:575.