Human CXCL11/I-TAC Antibody

Antigen Affinity-purified Polyclonal Goat IgG

Catalog Number: AF260

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CXCL11/I-TAC in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant mouse I-TAC is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human CXCL11/I-TAC Phe22-Phe94 Accession # O14625
Endotoxin Level	<0.10 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.

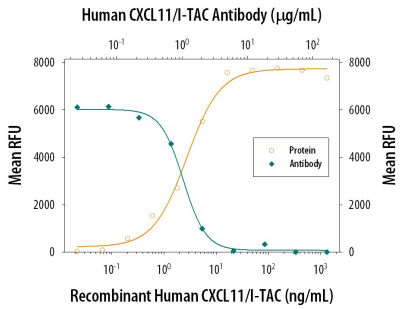
APPLICATIONS

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
Western Blot	0.1 µg/mL	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 0.5-1.5 µg/mL in the presence of 0.05 µg/mL Recombinant Human CXCL11/I-TAC.	

DATA

Neutralization



Chemotaxis Induced by CXCL11/I-TAC and Neutralization by Human CXCL11/I-TAC Antibody. Recombinant Human CXCL11/I-TAC (Catalog # 672-IT) chemoattracts the BaF3 mouse pro-B cell line transfected with human CXCR3 in a dose-dependent manner (orange line). The amount of cells that migrated through to the lower chemotaxis chamber was measured by Resazurin (Catalog # AR002). Chemotaxis elicited by Recombinant Human CXCL11/I-TAC (0.05 µg/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Human CXCL11/I-TAC Antigen Affinity-purified Polyclonal Antibody (Catalog # AF260). The ND_{50} is typically 0.5-1.5 µg/mL.

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.

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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.

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