

DESCRIPTION

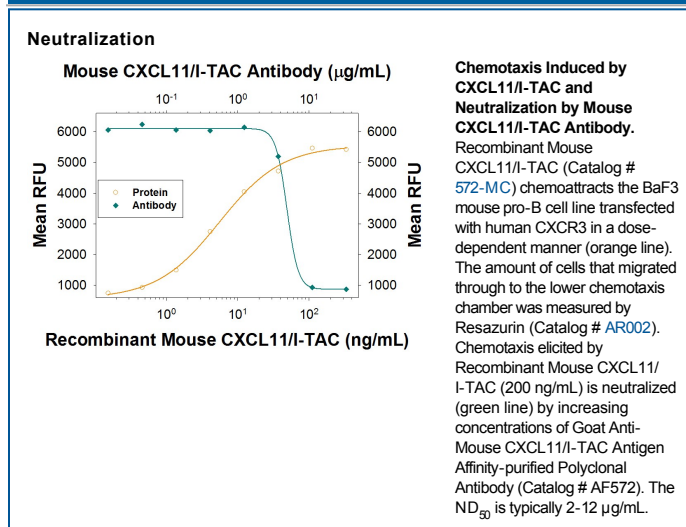
Species Reactivity	Mouse
Specificity	Detects mouse CXCL11/I-TAC in ELISAs and Western blots. In sandwich ELISAs, less than 0.2% cross-reactivity with recombinant human CXCL11, recombinant mouse (rm) BLC, rmCRG-2, rmGCP-2, rmMIG, rmPF4, and rmSDF-1a is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse CXCL11/I-TAC Phe22-Met100 Accession # Q9JHH5
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 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 Mouse CXCL11/I-TAC (Catalog # 572-MC)
Mouse CXCL11/I-TAC Sandwich Immunoassay		Reagent
ELISA Capture	0.2-0.8 µg/mL	Mouse CXCL11/I-TAC Antibody (Catalog # AF572)
ELISA Detection Standard	0.1-0.4 µg/mL	Mouse CXCL11/I-TAC Biotinylated Antibody (Catalog # BAF572) Recombinant Mouse CXCL11/I-TAC (Catalog # 572-MC)
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 2-12 µg/mL in the presence of 200 ng/mL Recombinant Mouse CXCL11/I-TAC.

DATA



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. <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, IP-9, and β -R1) is a member within the non-ELR CXC chemokine subgroup and has been designated CXCL11. CXCL11, together with MIG and IP-10, constitute a subset of chemokines that are ligands for CXCR3, a chemokine receptor that is primarily expressed on activated Th1 cells and NK cells. The three chemokines were also reported to act as antagonists for CCR3, a chemokine receptor that is preferentially expressed on activated Th2 cells. Mouse CXCL11 cDNA encodes a 100 amino acid (aa) residue precursor protein with a putative 21 aa residue signal peptide that is cleaved to yield a 79 aa residue mature protein. Mature mouse and human CXCL11 share 71% aa sequence identity. Mouse CXCL11 also shares 36% and 29% aa sequence identity with mouse IP-10 (CRG-2) and mouse MIG, respectively. The gene for mouse CXCL11 has been mapped to chromosome 5, in close proximity to the IP-10 and MIG genes. Mouse CXCL11 is induced in multiple tissues during endoxemia, with the greatest expression in lung, heart, small intestine, and kidney. The endotoxemia-induced mouse CXCL11 expression is strongly attenuated by treatment with glucocorticoid.

References:

1. Widney, D.P. *et al.* (2000) *J. Immunol.* **164**:6322.
2. Meyer, M. *et al.* (2000) *Cytogenet. Cell Genet.* **88**:278.
3. Loetscher, P. *et al.* (2001) *J. Biol. Chem. Manuscript M005652200.*