

DESCRIPTION

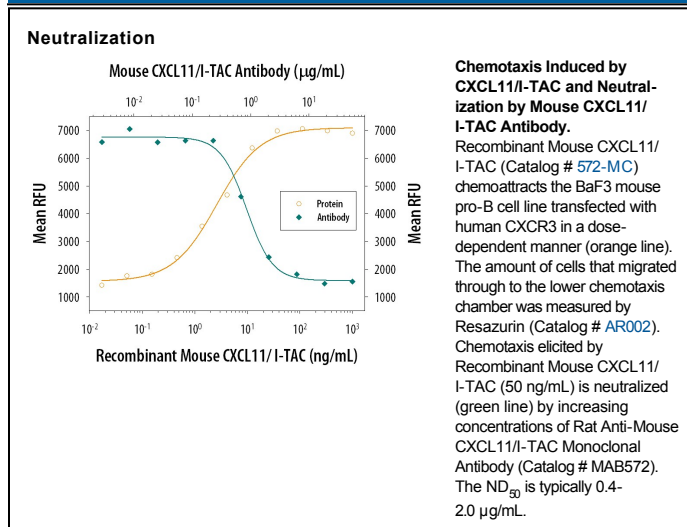
Species Reactivity	Mouse
Specificity	Detects mouse CXCL11/I-TAC in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant mouse CXCL1, 2, 6, 9, 10, CXCL12/SDF-1 α , 13, 14, recombinant human CXCL1, 2, 3, 5, 6, 7, 8, 9, 10, 11, CXCL12/SDF-1 α , CXCL12/SDF-1 β , 13, 14, 15, recombinant rat CXCL1, 2, CXCL3/CINC2 α , CXCL3/CINC-2 β , 5, or recombinant porcine CXCL8 is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 131327
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse CXCL11/I-TAC Phe22-Met100 Accession # Q9JHH5
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 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 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 0.4-2.0 μ g/mL in the presence of 50 ng/mL Recombinant Mouse 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, 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) precursor protein with a putative 21 aa signal peptide that is cleaved to yield a 79 aa 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.*