Mouse XCL1/Lymphotactin Antibody

Antigen Affinity-purified Polyclonal Goat IgG

Catalog Number: AF486

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects XCL1/Lymphotactin in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant human (rh) GROα, rhGROβ, rhGROγ, and recombinant mouse MCP-5 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant mouse XCL1/Lymphotactin
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.

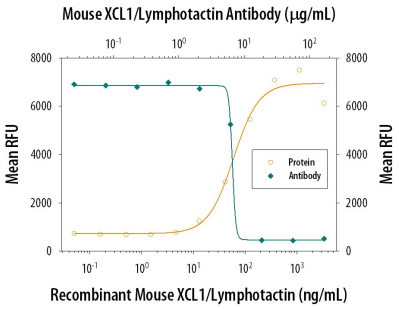
APPLICATIONS

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 XCL1/Lymphotactin (Catalog # 486-LT)
Immunohistochemistry	5-15 µg/mL	Perfusion fixed frozen sections of mouse small intestine (Peyer's patch) and thymus
Neutralization	Measured by its ability to neutralize XCL1/Lymphotactin-induced chemotaxis in the BaF3 mouse pro−B cell line transfected with human XCR1. The Neutralization Dose (ND_{50}) is typically 5-15 µg/mL in the presence of 0.15 µg/mL Recombinant Mouse XCL1/Lymphotactin.	

DATA

Neutralization



Chemotaxis Induced by XCL1/Lymphotactin and Neutralization by Mouse XCL1/Lymphotactin Antibody. Recombinant Mouse XCL1/Lymphotactin (Catalog # 486-LT) chemoattracts the BaF3 mouse pro-B cell line transfected with human XCR1 in a dose-dependent manner (orange line). The amount of cells that migrated through to the lower chemotaxis chamber was measured by Resazurin. Chemotaxis elicited by Recombinant Mouse XCL1/Lymphotactin (0.15 µg/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Mouse XCL1/Lymphotactin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF486). The ND_{50} is typically 5-15 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.

BACKGROUND

Mouse lymphotactin (Lptn) and its human homologue (also named human SCM-1 and ATAC) belong to the C or γ subfamily of chemokines. The C chemokines lack two (the 1st and 3rd) of the four invariant cysteine residues normally found in the CC and CXC chemokines and have an extended carboxy terminus. Mouse lymphotactin encodes a 114 amino acid residue precursor protein with a 21 amino acid residue predicted signal peptide. The expression of lymphotactin is restricted to activated mouse pro-T cells and to activated, class I MHC restricted T cells. The gene for lymphotactin has been mapped to chromosome 1 in both human and mouse.

References:

1. Kelner, G. *et al.* (1994) Science **266**:1395.
2. Hedrick, J.A. *et al.* (1997) J. Immunol. **158**:1533.

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