

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human XCL1/Lymphotactin in ELISAs and Western blots. In sandwich ELISAs, less than 0.15% cross-reactivity was observed with recombinant mouse MCP-5, recombinant human (rh) MIP-3β, rhGROα, rhTGF-α, rhGROγ, rhActivin RII Fc Chimera, rhIGF-
Source	Monoclonal Mouse IgG ₁ Clone # 109001
Purification	Protein A or G purified from ascites
Immunogen	<i>E. coli</i> -derived recombinant human XCL1/Lymphotactin Val22-Gly114 Accession # P47992
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

ELISA Capture (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
ELISA Detection (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Human lymphotactin (Lptn)/XCL1 (also named human SCM-1α and ATAC) and its mouse homologue 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. Human lymphotactin encodes a 114 amino acid residue precursor protein with a 21 amino acid residue predicted signal peptide. The expression of lymphotactin is abundant in some activated T cells such as activated CD8⁺ T cells and other class I MHC restricted T cells. Lptn expression is absent in CD4⁺ T cells. Human and mouse Lptn share approximately 60% amino acid sequence homology. The gene for lymphotactin has been mapped to chromosome 1 in both human and mouse. Recombinant human lymphotactin has been shown to have chemotactic activity for lymphocytes and NK cells. The orphan receptor GPR5 has been reported to be the specific receptor for Lptn.

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