

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CCL20/MIP-3 α in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse CCL20/MIP-3 α Ala27-Met96 Accession # Q642U4
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 either lyophilized or as a 0.2 μ m filtered solution in PBS.

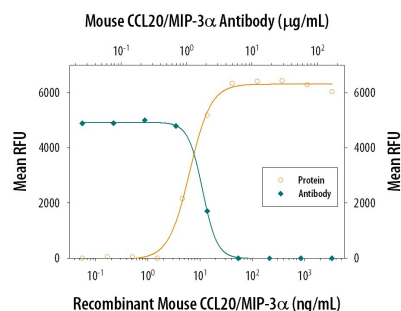
APPLICATIONS

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	0.1 μ g/mL	Recombinant Mouse CCL20/MIP-3 α (Catalog # 760-M3)
Neutralization	Measured by its ability to neutralize CCL20/MIP-3 α -induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CCR6. The Neutralization Dose (ND ₅₀) is typically 0.5-2.0 μ g/mL in the presence of 40 ng/mL Recombinant Mouse CCL20/MIP-3 α .	

DATA

Neutralization



Chemotaxis Induced by CCL20/MIP-3 α and Neutralization by Mouse CCL20/MIP-3 α Antibody.
Recombinant Mouse CCL20/MIP-3 α (Catalog # 760-M3) chemotaxis the BaF3 mouse pro-B cell line transfected with human CCR6 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 Mouse CCL20/MIP-3 α (40 ng/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Mouse CCL20/MIP-3 α Antigen Affinity-purified Polyclonal Antibody (Catalog # AF760). The ND₅₀ is typically 0.5-2.0 μ g/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 frost 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

MIP-3 α , also known as LARC (Liver and Activation-regulated Chemokine) and Exodus, is one of many novel β chemokines identified through bioinformatics. Mouse MIP-3 α cDNA encodes a 97 amino acid residue precursor protein with a 27 aa residue putative signal peptide that is predicted to be cleaved to form the 70 aa residue mature secreted protein. MIP-3 α is distantly related to other β chemokines (20-28% aa sequence identity). Mouse MIP-3 α shares approximately 71% and 63% amino acid sequence homology with rat and human MIP-3 α , respectively.

MIP-3 α has been shown to be expressed predominantly in lymph nodes, appendix, PBL, fetal liver, fetal lung, and epithelial cells of intestinal tissues. The expression of MIP-3 α is strongly up-regulated by inflammatory signals and down-regulated by the anti-inflammatory cytokine IL-10. Synthetic or recombinant MIP-3 α has been shown to be chemotactic for lymphocytes and dendritic cells, and inhibits proliferation of myeloid progenitors in colony formation assays. MIP-3 α has now been shown to be a unique functional ligand for CCR6 (previously referred to as GPR-CY4, CKR-L3, or STRL22 orphan receptor), a chemokine receptor that is selectively and highly expressed in human dendritic cells derived from CD34⁺ cord blood precursors.