

DESCRIPTION

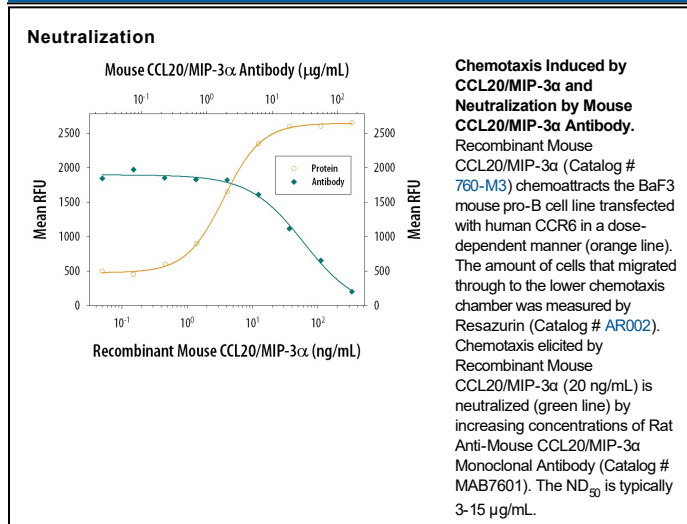
Species Reactivity	Mouse
Specificity	Detects mouse CCL20/MIP-3 α in ELISAs. Does not cross-react with recombinant human (rh) CCL19, rhCCL20, recombinant mouse (m) CCL3, 4, 9, 19, rmCXCL2, or recombinant rat CCL20.
Source	Monoclonal Rat IgG ₁ Clone # 114908
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse CCL20/MIP-3 α Ala28-Met97 Accession # O89093
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.

Mouse CCL20/MIP-3α Sandwich Immunoassay	Reagent
ELISA Capture	2-8 μ g/mL Mouse CCL20/MIP-3 α Antibody (Catalog # MAB7601)
ELISA Detection	0.1-0.4 μ g/mL Mouse CCL20/MIP-3 α Biotinylated Antibody (Catalog # BAF760)
Standard	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 3-15 μ g/mL in the presence of 20 ng/mL Recombinant Mouse CCL20/MIP-3 α .

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

MIP-3 α , also known as LARC (Liver and Activation-regulated Chemokine) and as 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 amino acid (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 CCR-6 (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.

References:

1. Baba, M. *et al.* (1997) *J. Biol. Chem.* **272**:14893.
2. Hromas, R. *et al.* (1997) *Blood* **89**:3315.
3. Greaves, D.R. *et al.* (1997) *J. Exp. Med.* **186**: 857.
4. Tanaka, Y. *et al.* (1999) *Eur. J. Immunol.* **29**:633.