

## DESCRIPTION

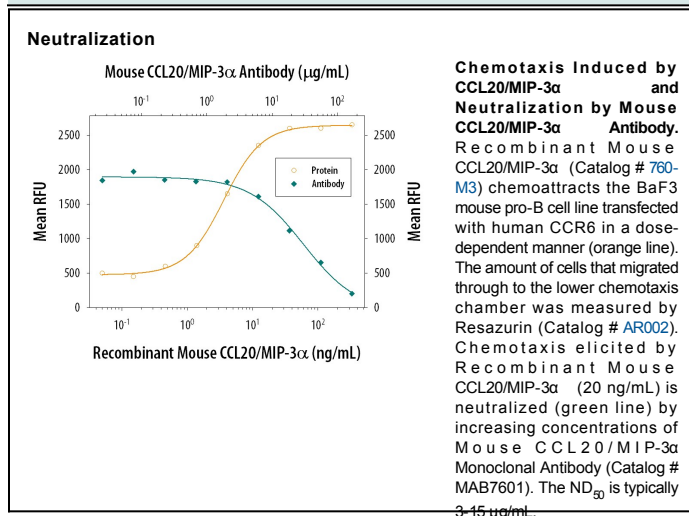
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse CCL20/MIP-3 $\alpha$ in ELISAs. Does not cross-react with recombinant human (rh) CCL19, rhCCL20, rmCCL3, 4, 9, 19, rmCXCL2, or rrCCL20.
<b>Source</b>	Monoclonal Rat IgG <sub>1</sub> Clone # 114908
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant mouse CCL20/MIP-3 $\alpha$  Ala28-Met97 Accession # O89093
<b>Endotoxin Level</b>	<0.10 EU per 1 $\mu$ g of the antibody by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 $\mu$ 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.

<b>Mouse CCL20/MIP-3<math>\alpha</math> Sandwich Immunoassay</b>	<b>Reagent</b>
<b>ELISA Capture</b>	2-8 $\mu$ g/mL Mouse CCL20/MIP-3 $\alpha$ Antibody (Catalog # MAB7601)
<b>ELISA Detection</b>	0.1-0.4 $\mu$ g/mL Mouse CCL20/MIP-3 $\alpha$ Biotinylated Antibody (Catalog # BAF760)
<b>Standard</b>	Recombinant Mouse CCL20/MIP-3 $\alpha$ (Catalog # 760-M3)
<b>Neutralization</b>	Measured by its ability to neutralize CCL20/MIP-3 $\alpha$ -induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CCR6. The Neutralization Dose (ND <sub>50</sub> ) is typically 3-15 $\mu$ g/mL in the presence of 20 ng/mL Recombinant Mouse CCL20/MIP-3 $\alpha$ .

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

MIP-3 $\alpha$ , also known as LARC (Liver and Activation-regulated Chemokine) and as Exodus, is one of many novel  $\beta$  chemokines identified through bioinformatics. Mouse MIP-3 $\alpha$  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 $\alpha$  is distantly related to other  $\beta$  chemokines (20-28% aa sequence identity). Mouse MIP-3 $\alpha$  shares approximately 71% and 63% amino acid sequence homology with rat and human MIP-3 $\alpha$ , respectively.

MIP-3 $\alpha$  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 $\alpha$  is strongly up-regulated by inflammatory signals and down-regulated by the anti-inflammatory cytokine IL-10. Synthetic or recombinant MIP-3 $\alpha$  has been shown to be chemotactic for lymphocytes and dendritic cells, and inhibits proliferation of myeloid progenitors in colony formation assays. MIP-3 $\alpha$  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<sup>+</sup> 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.