

#### 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, recombinant mouse (rm) CCL3, 4, 9, 19, rmCXCL2, or recombinant rat CCL20.
<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>Conjugate</b>	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
<b>Formulation</b>	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.

<b>ELISA Capture (Matched Antibody Pair)</b>	Optimal dilution of this antibody should be experimentally determined.
<b>ELISA Detection (Matched Antibody Pair)</b>	Optimal dilution of this antibody should be experimentally determined.
<b>Neutralization</b>	Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

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

#### 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.

#### PRODUCT SPECIFIC NOTICES

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