

## DESCRIPTION

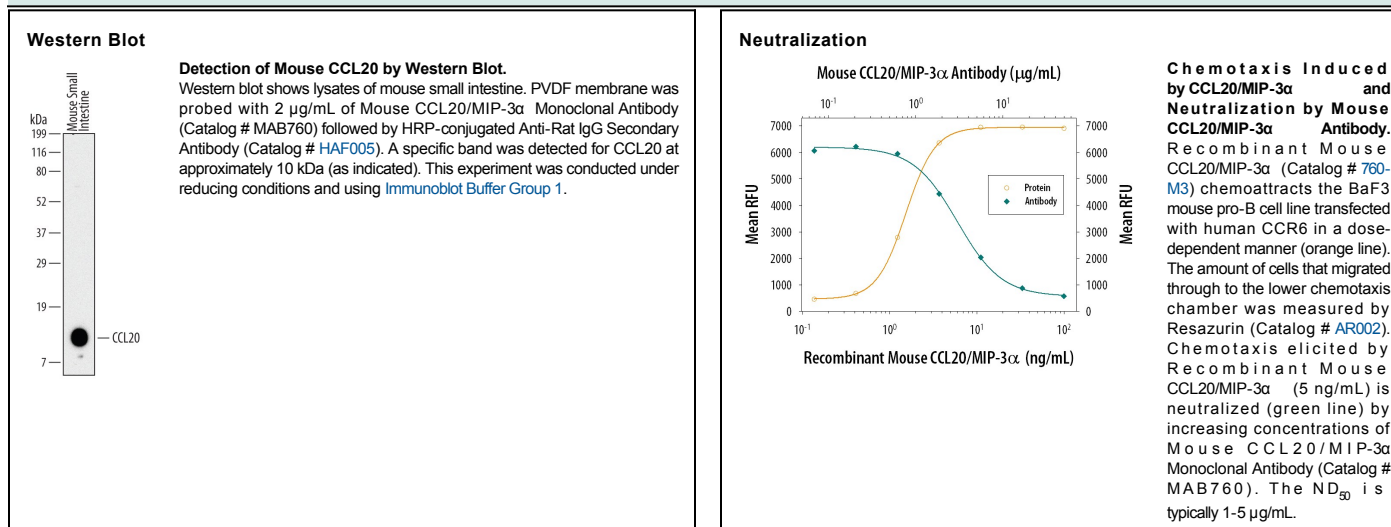
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse CCL20/MIP-3 $\alpha$ in direct ELISAs and Western blots. In direct ELISAs, 12% cross-reactivity with recombinant rat (rr) CCL20, 6% cross-reactivity with recombinant mouse (rm) CCL12 and recombinant human (rh) CCL25, and 3% cross-reactivity with with rmCCL9/10/MIP-1 $\gamma$ is observed. No cross-reactivity with recombinant cotton rat CCL3, 4, 5, rhCCL1, 2, 3, 4, 5, 7, 8, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28, rmCCL1, 2, 3, 4, 5, 6, 7, 8, 11, 17, 19, 21, 22, 24, 25, 27, or 28 is observed.
<b>Source</b>	Monoclonal Rat IgG <sub>1</sub> Clone # 114906
<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.

	Recommended Concentration	Sample
<b>Western Blot</b>	2 $\mu$ g/mL	See Below
<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 1-5 $\mu$ g/mL in the presence of 5 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>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <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

CCL20, also known as MIP-3 $\alpha$ , LARC, and Exodus, is a  $\beta$  chemokine. Mouse CCL20 cDNA encodes a 97 amino acid precursor protein with a 27 aa putative signal peptide that is predicted to be cleaved to form the 70 aa mature secreted protein. CCL20 is distantly related to other  $\beta$  chemokines (20-28% aa sequence identity). Mouse CCL20 shares approximately 71 and 63% amino acid sequence homology with rat and human CCL20, respectively. CCL20 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 CCL20 is strongly upregulated by inflammatory signals and downregulated by the anti-inflammatory cytokine IL-10. CCL20 has been shown to be chemotactic for lymphocytes and dendritic cells, and inhibits proliferation of myeloid progenitors in colony formation assays. CCL20 is a 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<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.