

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human CCL11/Eotaxin in Western blots. Does not cross-react with recombinant cotton rat CCL3, 4, 5, recombinant human CCL1, 3, 4, 5, 8, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, recombinant mouse CCL1, 2, 3, 4, 5, 6, 7, 8, 9/10/MIP-1 $\gamma$ , 11, 12, 17, 19, 20, 21, 22, 24, 25, 27, or recombinant rat CCL20.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 43915
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human CCL11/Eotaxin
<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>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 $\mu$ g/mL	Recombinant Human CCL11/Eotaxin (Catalog # <a href="#">320-EO</a> )
<b>Intracellular Staining by Flow Cytometry</b>	2.5 $\mu$ g/10 <sup>6</sup> cells	WS-1 human fetal skin fibroblast cell line treated with Recombinant Human TNF- $\alpha$ (Catalog # <a href="#">210-TA</a> ) and Recombinant Human IL-4 (Catalog # <a href="#">204-IL</a> ) fixed with paraformaldehyde and permeabilized with saponin

## 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

CCL11 is a potent eosinophil chemoattractant that was originally purified from bronchoalveolar lavage fluid of guinea pigs sensitized by aerosol challenge with ovalbumin. Microsequencing of the purified protein revealed the guinea pig CCL11 to be a member of the beta (CC) chemokine family of inflammatory and immunoregulatory cytokines. cDNA clones for guinea pig, mouse and human CCL11 have been isolated. Human CCL11 cDNA encodes a 97 amino acid residue precursor protein from which the amino-terminal 23 amino acid residues are cleaved to generate the 74 amino acid residue mature human CCL11. At the protein sequence level, mature human CCL11 is approximately 60% identical to mature mouse and guinea pig CCL11. In addition, human CCL11 also shows high amino acid sequence identity to human MCP-1, 2 and 3. Human CCL11 is chemotactic for eosinophils, but not mononuclear cells or neutrophils. The CC chemokine receptor 3 (CCR3) has now been identified to be a specific human CCL11 receptor (1-3). CCR3 has also been shown to serve as a cofactor for a restricted subset of primary HIV viruses and binding of CCL11 to CCR3 inhibited infection by the HIV isolates (4).

## References:

1. Kitamura, M. *et al.* (1996) J. Biol. Chem **271**:7725.
2. Garcia-Zepeda, E.A. *et al.* (1996) Nature Medicine **2**:449.
3. Ponath, P.D. *et al.* (1996) J. Clin. Invest. **97**:604.
4. Choe, H. *et al.* (1996) Cell **85**:1135.