

DESCRIPTION

Species Reactivity	Human
Specificity	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 γ , 11, 12, 17, 19, 20, 21, 22, 24, 25, 27, or recombinant rat CCL20.
Source	Monoclonal Mouse IgG ₁ Clone # 43915
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human CCL11/Eotaxin
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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.

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25-1 µg/10 ⁶ cells	WS-1 human fetal skin fibroblast cell line treated with Recombinant Human TNF- α (Catalog # 210-TA) and Recombinant Human IL-4 (Catalog # 204-IL) fixed with paraformaldehyde and permeabilized with saponin

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

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.

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