

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CCL11/Eotaxin in ELISAs and Western blots. In Western blots, this antibody does not cross-react with recombinant human CCL1, 2, 3, 4, 5, 7, 8, 9/10/MIP-1 γ , 14, 17, 19, 20, 21, 25, recombinant mouse CCL2, 3, 4, 5, 6, 7, 9/10/MIP-1 γ , 11, 21, or 25.
Source	Monoclonal Mouse IgG ₁ Clone # 43911
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human CCL11/Eotaxin Gly24-Pro97 Accession # P51671
Endotoxin Level	<0.10 EU per 1 μ g of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS and NaCl with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μ m filtered solution in PBS.

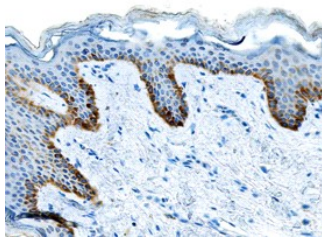
APPLICATIONS

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
Western Blot	1 μ g/mL	Recombinant Human CCL11/Eotaxin (Catalog # 320-EO) under non-reducing conditions only
Immunohistochemistry	8-25 μ g/mL	See Below
Human CCL11/Eotaxin Sandwich Immunoassay		Reagent
ELISA Capture	2-8 μ g/mL	Human CCL11/Eotaxin Antibody (Catalog # MAB320)
ELISA Detection	0.1-0.4 μ g/mL	Human CCL11/Eotaxin Biotinylated Antibody (Catalog # BAF320)
Standard		Recombinant Human CCL11/Eotaxin (Catalog # 320-EO)
Neutralization	Measured by its ability to neutralize CCL11/Eotaxin-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with mouse CCR3. The Neutralization Dose (ND ₅₀) is typically 1-5 μ g/mL in the presence of 5 ng/mL Recombinant Human CCL11/Eotaxin.	

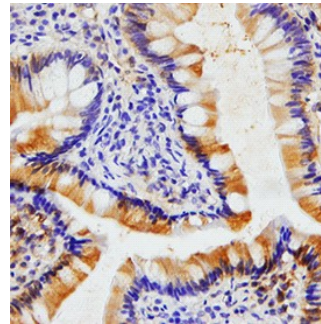
DATA

Immunohistochemistry

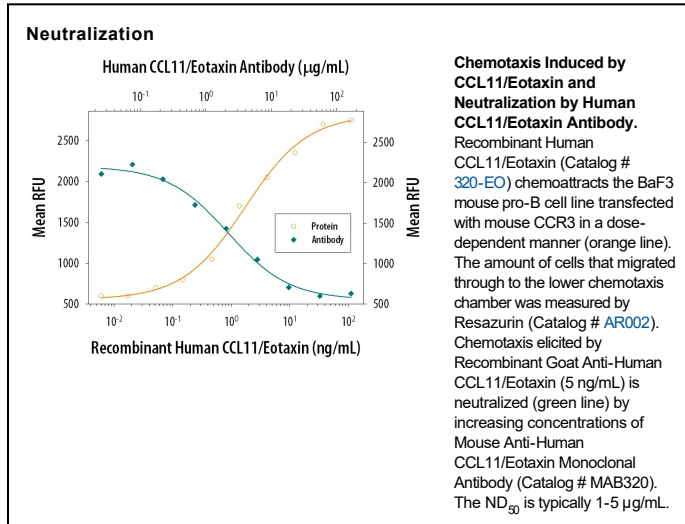


CCL11/Eotaxin in Human Skin.
CCL11/Eotaxin was detected in immersion fixed paraffin-embedded sections of human skin using Mouse Anti-Human CCL11/Eotaxin Monoclonal Antibody (Catalog # MAB320) at 15 μ g/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in keratinocytes. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

Immunohistochemistry



CCL11/Eotaxin in Human Colon.
CCL11/Eotaxin was detected in immersion fixed paraffin-embedded sections of human colon using Mouse Anti-Human CCL11/Eotaxin Monoclonal Antibody (Catalog # MAB320) at 15 μ g/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm of epithelial and stromal cells. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).



PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.

Shipping 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

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.