

Human CCL11/Eotaxin Antibody

Monoclonal Mouse IgG₁ Clone # 43911 Catalog Number: MAB320

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-1Y, 14, 17, 19, 20, 21, 25, recombinant mouse CCL2, 3, 4, 5, 6, 7, 9/10/MIP-1Y, 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		
Formulation	Lyophilized from a 0.2 μm 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 μm 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
Dual RNAscope ISH-IHC Compatible	3-25 μg/mL	Immersion fixed paraffin-embedded sections of human duodenum
Western Blot	1 μg/mL	Recombinant Human CCL11/Eotaxin (Catalog # 320-EO) under non-reducing conditions only
Immunohistochemistry	8-25 µg/mL	See Below
Human CCL11/Eotaxin Sandwich Immund	assay	Reagent
ELISA Capture	2-8 µg/mL	Human CCL11/Eotaxin Antibody (Catalog # MAB320)
ELISA Detection	0.1-0.4 µg/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 μg/mL in the presence of 5 ng/mL Recombinant Human CCL11/Eotaxin.	

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DATA

Neutralization Immunohistochemistry CCL11/Eotaxin in Human Human CCL11/Eotaxin Antibody (µg/mL) Chemotaxis Induced by Colon, CCI 11/Fotaxin was CCI 11/Fotaxin and 10-1 10⁰ 10¹ detected in immersion fixed Neutralization by Human paraffin-embedded sections of CCL11/Eotaxin Antibody. human colon using Mouse Anti-2500 2500 Recombinant Human Human CCL11/Eotaxin CCL11/Eotaxin (Catalog # 2000 Ha Monoclonal Antibody (Catalog # RFU 2000 Catalog # 320-EO) chemoattracts MAB320) at 15 $\mu\text{g/mL}$ for 1 hour the BaF3 mouse pro-B cell line Mean Aean at room temperature followed by 1500 1500 transfected with mouse CCR3 in a Protein Antibody incubation with the Anti-Mouse dose-dependent manner (orange IgG VisUCyte™ HRP Polymer 1000 1000 line). The amount of cells that Antibody (Catalog # Catalog # migrated through to the lower VC001). Tissue was stained using 500 500 chemotaxis chamber was 10-2 10-1 10 10¹ DAB (brown) and counterstained measured by Resazurin (Catalog with hematoxylin (blue). Specific Recombinant Human CCL11/Eotaxin (ng/mL) # Catalog # AR002). Chemotaxis staining was localized to elicited by Recombinant Goat Anticytoplasm of epithelial and stromal Human CCL11/Eotaxin (5 ng/mL) is neutralized (green line) by cells. View our protocol for Chromogenic IHC Staining of increasing concentrations of Paraffin-embedded Tissue Mouse Anti-Human CCI 11/Fotaxin Monoclonal Sections Antibody (Catalog # MAB320). The ND₅₀ is typically 1-5 µg/mL. In-situ Hybridization Detection of CCI 11/Fotaxin in Human Duodenum, Formalinfixed paraffin-embedded tissue sections of human duodenum were probed for Eotaxin mRNA (ACD RNAScope Probe, catalog # 438468; Fast Red chromogen, ACD catalog # 322750). Adjacent tissue section was processed for immunohistochemistry using In Situ Hybridization (ISH) Immunohistochemistry (IHC) mouse anti-human Eotaxin monoclonal antibody (R&D Systems catalog # Catalog # MAB320) at 20ug/mL with overnight incubation at 4 degrees Celsius followed by incubation with anti-mouse IgG VisUCyte HRP Polymer Antibody (Catalog # Catalog # VC001) and DAB chromogen (yellow-brown). Tissue was counterstained with hematoxvlin (blue). Specific staining was localized to cytoplasm of epithelial and stromal cells PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS. For liquid material, refer to CoA for concentration.		
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.		
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. 		



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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.