Mouse CCL11/Eotaxin Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF-420-NA

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CCL11/Eotaxin in ELISAs and Western blots. In Western blots, approximately 50% cross-reactivity with recombinant human CCL11/Eotaxin and recombinant mouse (rm) MARC is observed, and less than 2% cross-reactivity with rmJE is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant mouse CCL11/Eotaxin His24-Pro97 Accession # P48298
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

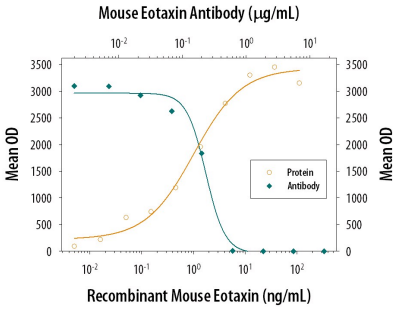
APPLICATIONS

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	0.1 µg/mL	Recombinant Mouse CCL11/Eotaxin (Catalog # 420-ME)
Immunohistochemistry	5-15 µg/mL	Perfusion fixed frozen sections of mouse intestine
Mouse CCL11/Eotaxin Sandwich Immunoassay		**Reagent**
ELISA Capture	0.2-0.8 µg/mL	Mouse CCL11/Eotaxin Antibody (Catalog # AF-420-NA)
ELISA Detection	0.1-0.4 µg/mL	Mouse CCL11/Eotaxin Biotinylated Antibody (Catalog # BAF420)
Standard		Recombinant Mouse CCL11/Eotaxin (Catalog # 420-ME)
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 0.1-0.5 µg/mL in the presence of 10 ng/mL Recombinant Mouse CCL11/Eotaxin.	

DATA

Neutralization



Chemotaxis Induced by CCL11/Eotaxin and Neutralization by Mouse CCL11/Eotaxin Antibody. Recombinant Mouse CCL11/Eotaxin (Catalog # 420-ME) chemoattracts the BaF3 mouse pro-B cell line transfected with mouse CCR3 in a dose-dependent manner (orange line). The amount of cells that migrated through to the lower chemotaxis chamber was measured by Resazurin (Catalog # AR002). Chemotaxis elicited by Recombinant Mouse CCL11/Eotaxin (10 ng/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Mouse CCL11/Eotaxin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-420-NA). The ND_{50} is typically 0.1-0.5 µg/mL.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it 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. Mouse 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 mouse CCL11. At the protein sequence level, mature mouse CCL11 is approximately 60% identical to mature human and guinea pig CCL11. In addition, mouse CCL11 also shows high amino acid sequence identity to members of the MCP family. Mouse CCL11 is chemotactic for eosinophils, but not mononuclear cells or neutrophils. CCL11 mRNA is expressed in a variety of tissues. The expression of CCL11 mRNA is induced in cultured endothelial cells in response to IFN-γ. In addition, CCL11 mRNA is also induced in response to the transplantation of IL-4-secreting tumor cells. The CC chemokine receptor 3 (CCR3) has now been identified to be a specific human CCL11 receptor.

References:

1. Rothenberg, M.E. *et al.* (1995) Proc. Natl. Acad. Sci. USA **92**:8960.
2. Kitaura, M. *et al.* (1996) J. Biol. Chem **271**:7725.
3. Garcia-Zepeda, E.A. *et al.* (1996) Nature Medicine **2**:449.
4. Ponath, P.D. *et al.* (1996) J. Clin. Invest. **97**:604.