

DESCRIPTION

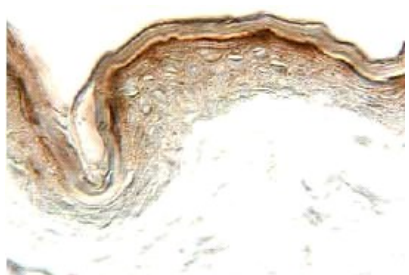
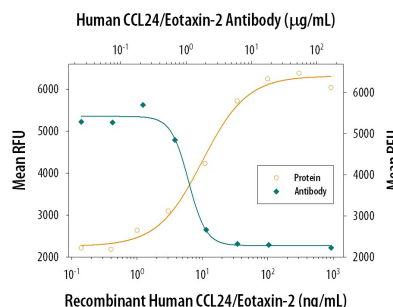
Species Reactivity	Human
Specificity	Detects human CCL24/Eotaxin-2/MPIF-2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 10% cross-reactivity with recombinant mouse CCL24/Eotaxin-2/MPIF-2 is observed and less than 5% cross-reactivity with recombinant human (rh) MPIF-1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human CCL24/Eotaxin-2/MPIF-2 Val27-Cys119 Accession # AAB51135
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. *Small pack size (-SP) is supplied 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
Western Blot	0.1 µg/mL	Recombinant Human CCL24/Eotaxin-2/MPIF-2 (Catalog # 343-E2)
Immunohistochemistry	5-15 µg/mL	See Below
Neutralization		Measured by its ability to neutralize CCL24/Eotaxin-2/MPIF-2-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with mouse CCR3. The Neutralization Dose (ND ₅₀) is typically 0.5-2.5 µg/mL in the presence of 0.1 µg/mL Recombinant Human CCL24/Eotaxin-2/MPIF-2.

DATA

<p>Immunohistochemistry</p>  <p>CCL24/Eotaxin-2/MPIF-2 in Human Skin. CCL24/Eotaxin-2/MPIF-2 was detected in immersion fixed paraffin-embedded sections of human skin using 15 µg/mL Goat Anti-Human CCL24/Eotaxin-2/MPIF-2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF343) overnight at 4 °C. Tissue was stained with the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p>	<p>Neutralization</p>  <p>Chemotaxis Induced by CCL24/Eotaxin-2 and Neutralization by Human CCL24/Eotaxin-2 Antibody. Recombinant Human CCL24/Eotaxin-2 (Catalog # 343-E2) 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 Human CCL24/Eotaxin-2 (0.1 µg/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Human CCL24/Eotaxin-2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF343). The ND₅₀ is typically 0.5-2.5 µg/mL.</p>
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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. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> 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

Eotaxin, also named MPIF-2 and Ck β 6, is a novel CC chemokine identified in the Human Genome Sciences, Inc. database based on the presence of the CC motif and homology with other known CC chemokines. Eotaxin-2 cDNA encodes a 119 amino acid residue precursor protein with a 26 aa residue signal peptide that is cleaved to generate a mature protein predicted to contain 93 amino acid residues with an N-glycosylation site. Although one recombinant preparation of MPIF-2/Eotaxin-2 from insect cells was reported to be glycosylated and of the predicted size (10.5 kDa), a second preparation of recombinant Eotaxin-2 prepared by a different group, also from insect cells, was shown to contain a 78 amino acid residue carboxy-terminally truncated variant of Eotaxin-2. Additional minor carboxy-terminally truncated variants with 73, 75 and 76 residues were also isolated. Compared to other CC chemokines, Eotaxin-2 exhibits 40%, 42% and 39% amino acid identity to MCP-3, MIP-1 α , and Eotaxin, respectively. Eotaxin-2 mRNA is weakly expressed in activated monocytes and T lymphocytes.

Recombinant Eotaxin-2 has been shown to induce chemotaxis of eosinophils, basophils, and resting T lymphocytes but not monocytes and activated T lymphocytes. Eotaxin-2 has also been shown to suppress the colony formation by the high proliferative potential colony-forming cells which represent multipotential hematopoietic progenitors. On eosinophils, the effects of Eotaxin-2 was shown to be inhibited by an anti-CCR-3 antibody and to be cross-desensitized by Eotaxin or MCP-4, suggesting that all three CC chemokines act through CCR-3, at least on eosinophils.

References:

1. Forssmann, U. *et al.* (1997) *J. Exp. Med.* **185**:2171.
2. Patel, V.P. *et al.* (1997) *J. Exp. Med.* **185**:1163.