

eotaxin (M-19): sc-6182

BACKGROUND

Eotaxin is a member of the C-C or β family of chemokines which is characterized by a pair of adjacent cysteine residues. Eotaxin was first purified from the bronchoalveolar lavage fluid of guinea pigs challenged with an aerosol allergen, and serves as a potent chemoattractant for eosinophils. Eosinophilia is a prominent feature of several allergic conditions and is thought to be a central event in maladies such as bronchial asthma, dermatitis, conjunctivitis and possibly inflammatory bowel disease. The cognate eotaxin receptor has been identified. Originally described as mouse orphan receptor (MIP-1 α receptor-like 2), CKR-3 has been shown to not only serve as the high affinity receptor for eotaxin, but also for RANTES and MCP-3. CKR-3 is expressed on the cell surface of primary eosinophils and does not bind to other members of the C-C or C-X-C family of chemokines. Of note, CKR-3 also serves as a "coreceptor" for a restricted subset of viruses.

REFERENCES

1. Jose, P.J., et al. 1994. Eotaxin: a potent eosinophil chemoattractant cytokine detected in a guinea pig model of allergic airways inflammation. *J. Exp. Med.* 179: 881-887.
2. Jose, P.J., et al. 1994. Eotaxin: cloning of an eosinophil chemoattractant cytokine and increased mRNA expression in allergen-challenged guinea-pig lungs. *Biochem. Biophys. Res. Comm.* 205: 788-794.

CHROMOSOMAL LOCATION

Genetic locus: CCL11 (human) mapping to 17q12; Ccl11 (mouse) mapping to 11 C.

SOURCE

eotaxin (M-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of eotaxin of mouse origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-6182 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

eotaxin (M-19) is recommended for detection of eotaxin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

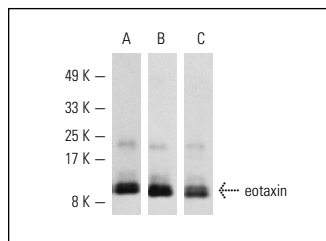
Suitable for use as control antibody for eotaxin siRNA (h): sc-43753, eotaxin siRNA (m): sc-63310, eotaxin shRNA Plasmid (h): sc-43753-SH, eotaxin shRNA Plasmid (m): sc-63310-SH, eotaxin shRNA (h) Lentiviral Particles: sc-43753-V and eotaxin shRNA (m) Lentiviral Particles: sc-63310-V.

Molecular Weight of eotaxin: 8 kDa.

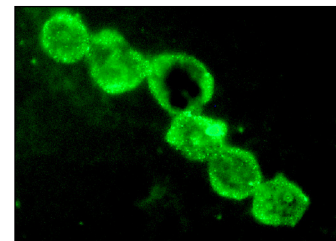
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker[™] Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

DATA



Western blot analysis of human recombinant eotaxin (A, B, C). Antibodies tested include eotaxin (C-19): sc-6181 (A), eotaxin (M-19): sc-6182 (B) and eotaxin (R-19): sc-6183 (C).



eotaxin (M-19): sc-6182. Immunofluorescence staining of methanol-fixed AMJ2-C8 cells showing cytoplasmic localization.

SELECT PRODUCT CITATIONS

1. Foster, P.S., et al. 2002. CD4⁺ T-lymphocytes regulate airway remodeling and hyper-reactivity in a mouse model of chronic asthma. *Lab. Invest.* 82: 455-462.
2. Kumar, R.K., et al. 2002. Eotaxin expression by epithelial cells and plasma cells in chronic asthma. *Lab. Invest.* 82: 495-504.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **eotaxin (C-3): sc-373767** or **eotaxin (G-12): sc-373764**, our highly recommended monoclonal alternatives to eotaxin (M-19).