SANTA CRUZ BIOTECHNOLOGY, INC.

eotaxin-2 (G-17): sc-12253

BACKGROUND

Chemokines have been implicated in the regulation of stem/progenitor cell proliferation and movement. The C-C chemokine eotaxin-2 (also known as MPIF-2, CK β-6 or small inducible cytokine A24), which promotes chemotaxis and Ca^{2+} mobilization in human eosinophils, exerts its activity solely through the CCR3 receptor. In addition, eotaxin-2 lacks suppressive activity against immature subsets of myeloid progenitors, which have been stimulated to proliferate by multiple growth factors. While eotaxin-2 is functionally similar to eotaxin, they share only 39% amino acid homology and differ almost completely in the NH_2-terminal region.

REFERENCES

1. Patel, V.P., et al. 1997. Molecular and functional characterization of two novel human C-C chemokines as inhibitors of two distinct classes of myeloid progenitors. J. Exp. Med. 185: 1163-1172.
2. Forssmann, U., et al. 1997. Eotaxin-2, a novel C-C chemokine that is selective for the chemokine receptor CCR3, and acts like eotaxin on human eosinophil and basophil leukocytes. J. Exp. Med. 185: 2171-2176.

CHROMOSOMAL LOCATION

Genetic locus: CCL24 (human) mapping to 7q11.23; Ccl24 (mouse) mapping to 5 G2.

SOURCE

eotaxin-2 (G-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of eotaxin-2 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-12253 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

eotaxin-2 (G-17) is recommended for detection of eotaxin-2 of human and, to a lesser extent, mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (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-2 siRNA (h): sc-63311, eotaxin-2 siRNA (m): sc-63313, eotaxin-2 shRNA Plasmid (h): sc-63311-SH, eotaxin-2 shRNA Plasmid (m): sc-63313-SH, eotaxin-2 shRNA (h) Lentiviral Particles: sc-63311-V and eotaxin-2 shRNA (m) Lentiviral Particles: sc-63313-V.

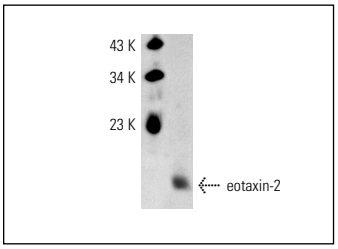
Molecular Weight of eotaxin-2: 10 kDa.

Positive Controls: AMJ2-C8 whole cell lysate or human breast tumor.

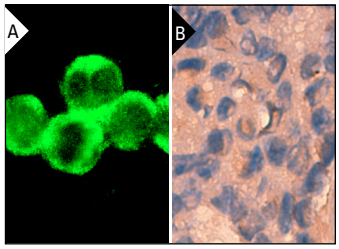
RECOMMENDED SECONDARY REAGENTS

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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



eotaxin-2 (G-17): sc-12253. Western blot analysis of human recombinant eotaxin-2.



eotaxin-2 (G-17): sc-12253. Immunofluorescence staining of methanol-fixed AMJ2-C8 cells showing cytoplasmic localization (**A**). Immunoperoxidase staining of formalin fixed, paraffin-embedded human breast tumor showing cytoplasmic and extracellular localization (**B**).

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.