**BACKGROUND**

Cytokines are small, soluble proteins with pleiotropic effects on a variety of cell types. Cytokines have a regulatory function over the immune system and mediate aspects of inflammatory response. They exert their biological effects through the binding of membrane-bound receptors which, in turn, initiate signal transduction cascades that elicit physiological changes in their target cells. Interleukin-16, or IL-16, is a cytokine that has chemotactic activity on CD4+ T lymphocytes. It has long been known that eosinophils and CD4+ T lymphocytes are recruited to sites of allergic inflammation, but the molecular mechanism was poorly understood. IL-16, also referred to as lymphocyte chemoattractant factor, is secreted by activated eosinophils as part of the allergic response along with RANTES, an additional cytokine. Once bound to its cognate receptor, CD4, IL-16 initiates a signal cascade that results in the activation of the PKC family.

**CHROMOSOMAL LOCATION**

Genetic locus: IL16 (human) mapping to 15q25.1; Il16 (mouse) mapping to 7 D3.

**SOURCE**

IL-16 (H-110) is a rabbit polyclonal antibody raised against amino acids 522-631 of IL-16 of human origin.

**APPLICATIONS**

IL-16 (H-110) is recommended for detection of IL-16 of mouse, rat and human 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).

IL-16 (H-110) is also recommended for detection of IL-16 in additional species, including bovine and porcine.

Suitable for use as control antibody for IL-16 siRNA (h): sc-39647, IL-16 siRNA (m): sc-39648, IL-16 shRNA Plasmid (h): sc-39647-SH, IL-16 shRNA Plasmid (m): sc-39648-SH, IL-16 shRNA (h) Lentiviral Particles: sc-39647-V and IL-16 shRNA (m) Lentiviral Particles: sc-39648-V.

**PRODUCT**

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

**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.

**DATA**

**SELECT PRODUCT CITATIONS**