**BACKGROUND**

The Th2 cytokine Interleukin-13 (IL-13) plays a critical role in allergen-induced airway hyper-responsiveness (AHR). Two different receptors exist for IL-13, designated IL-13Rα1 and 2. IL-13Rα1 exists as a heterodimer of IL-13Rα1 and IL-4Rα as a signalingsubunit, whereas IL-13Rα2 acts as a decoy receptor for IL-13. Furthermore, TNFα or IL-4 stimulation induces IL-13Rα2 upregulation, while IL-13Rα1 is constitutively expressed. Cell surface localization of IL-13Rα2 abrogates IL-13 signaling, thus IL-13 induced translocation of the receptor from the cytoplasm provides a mechanism for negative-feedback of IL-13 signaling. IL-13Rα1 expression is predominant in B cells, monocytes and T cells, whereas IL-13Rα2 expression is highest in glioma cells.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: IL13RA2 (human) mapping to Xq23.

**SOURCE**

IL-13Rα2 (B-D13) is a mouse monoclonal antibody raised against IL-13Rα2 of human origin.

**PRODUCT**

Each vial contains 100 µg IgG1 in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

**APPLICATION**

IL-13Rα2 (B-D13) is recommended for detection of IL-13Rα2 of human origin by 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 flow cytometry (1 µg per 1 x 10^6 cells).

Suitable for use as control antibody for IL-13Rα2 siRNA (h): sc-63339, IL-13Rα2 shRNA Plasmid (h): sc-63339-SH and IL-13Rα2 shRNA (h) Lentiviral Particles: sc-63339-V.

Molecular Weight of IL-13Rα2: 44 kDa.

**SELECT PRODUCT CITATIONS**


**STORAGE**

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

**PROTOCOLS**

See our website at www.scbt.com for detailed protocols and support products.