Mouse IL-13 Rα2 Alexa Fluor® 750-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF539S
100 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse IL-13 Rα2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 5% cross-reactivity with recombinant human (rh) IL-13 Rα2 is observed and less than 1% cross-reactivity with rhIL-5Rα, rhIL-5
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse IL-13 Rα2 Leu22-Lys334 Accession # O88786
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Two type1 membrane proteins belonging to the hemopoietin receptor family have been cloned and shown to bind IL-13 with differing affinities. The lower affinity IL-13 binding protein, previously designated IL-13 Rα, IL-13 Rα' or NR4, is now referred to as IL-13 Rα1. The high affinity IL-13 binding protein, previously also designated IL-13 R or IL-13 Rα', is now referred to as IL-13 Rα2.

The mouse IL-13 Rα2 cDNA encodes a 383 amino acid (aa) residue precursor protein with a putative 21 aa residue signal peptide, a 313 residue extracellular domain, a 22 aa residue transmembrane region, and a 27 aa residue cytoplasmic tail. Human and mouse IL-13 Rα2 share 59% aa sequence identity. The extracellular domain of IL-13 Rα2 is also closely related to that of IL-13 Rα1. However, the cytoplasmic domain of IL-13 Rα2 lacks the box 1 and box 2 signaling motif and is much shorter than that of IL-13 Rα1, suggesting that the two receptors are functionally distinct. IL-13 Rα1 has been shown to combine with IL-4 Rα to form a high-affinity receptor complex capable of transducing both an IL-4-dependent and an IL-13-dependent proliferative signal. The role of IL-13 Rα2 in IL-13 signaling remains to be elucidated. The amino-terminal 27 amino acid residues of mouse IL-13 Rα2 are identical to that of a soluble mouse IL-13 binding protein purified from mouse serum and urine. Recombinant mouse IL-13 Rα/Fc chimera has been shown to bind IL-13 with high affinity and is a potent IL-13 antagonist.

PRODUCT SPECIFIC NOTICES

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