Human IL-13 Rα2 Alexa Fluor® 647-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF146R
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IL-13 Rα2 in direct ELISAs and Western blots. In direct ELISAs, approximately 5% cross-reactivity with recombinant mouse IL-13 Rα2 is observed and less than 1% cross-reactivity with recombinant human IL-13 Rα1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human IL-13 Rα2 Cys22-Leu342 Accession # Q14627
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.*

CyTOF-ready	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Blockade of Receptor-ligand Interaction	Optimal dilution of this antibody should be experimentally determined.
Flow Cytometry	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^{I} 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^{I}, is now referred to as IL-13 Rα2. Human IL-13 Rα2 was originally cloned from the Caki-1 human renal carcinoma cell line. The IL-13 Rα2 cDNA encodes a 380 amino acid (aa) residue precursor protein with a putative 26 aa residue signal peptide, a 317 residue extracellular domain, a 20 aa residue transmembrane region and a 17 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 17 aa residue cytoplasmic domain of IL-13 Rα2 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 the IL-4 R to form a high-affinity receptor complex capable of transducing an IL-13-dependent proliferative signal. The role of IL-13 Rα2 in IL-13 signaling remains to be elucidated. The amino-terminal 27 aa residues of the human and mouse IL-13 Rα2 are nearly identical to that of a soluble mouse IL-13 binding protein purified from mouse serum and urine.

PRODUCT SPECIFIC NOTICES

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