

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IL-13 R α 2 in direct ELISAs and Western blots. In direct ELISAs, approximately 5% cross-reactivity with recombinant mouse IL-13 R α 2 is observed and less than 1% cross-reactivity with recombinant human IL-13 R α 1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human IL-13 R α 2 Cys22-Leu342 Accession # Q14627
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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 R α , IL-13 R α ¹ or NR4, is now referred to as IL-13 R α 1. The high affinity IL-13 binding protein, previously also designated IL-13 R or IL-13 R α ², is now referred to as IL-13 R α 2. Human IL-13 R α 2 was originally cloned from the Caki-1 human renal carcinoma cell line. The IL-13 R α 2 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 R α 2 share 59% aa sequence identity. The extracellular domain of IL-13 R α 2 is also closely related to that of IL-13 R α 1. However, the 17 aa residue cytoplasmic domain of IL-13 R α 2 is much shorter than that of IL-13 R α 1, suggesting that the two receptors are functionally distinct. IL-13 R α 1 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 R α 2 in IL-13 signaling remains to be elucidated. The amino-terminal 27 aa residues of the human and mouse IL-13 R α 2 are nearly identical to that of a soluble mouse IL-13 binding protein purified from mouse serum and urine.

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