

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IL-13 R α 1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 5% cross-reactivity with recombinant human (rh) IL-13 R α 2, recombinant mouse IL-13 R α 1, rhIL-5 R α , rhIL-5 R β , rhIL-4 R, and r
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human IL-13 R α 1 Ala27-Thr343 (Thr130Ile) Accession # Q5JSL4
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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.
Neutralization	Optimal dilution of this antibody should be experimentally determined.
Western Blot	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 type 1 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 ' 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 ', is now referred to as IL-13 R α 2. The human IL-13 R α 1 was originally cloned based on sequence homology to the mouse IL-13 R α 1. The IL-13 R α 1 cDNA encodes a 427 amino acid (aa) residue precursor protein with a putative 21 aa residue signal peptide, a 324 aa residue extracellular domain, a 23 aa residue transmembrane region and a 59 aa residue cytoplasmic tail. Human and mouse IL-13 R α 1 share 76% aa sequence identity. The extracellular domain of IL-13 R α 1 is also closely related to that of IL-13 R α 2. IL-13 R α 1 has been shown to combine with the IL-4 R α 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.

PRODUCT SPECIFIC NOTICES

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