

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IL-13 Rα1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant mouse IL-13 Rα1, recombinant human (rh) IL-13 Rα2, rhIL-4 R, rhIL-5 Rα, rhIL-5 Rβ, or rhIL-9 R is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 116730
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human IL-13 Rα1 Ala27-Thr343 Accession # P78552
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.

ELISA Capture (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
ELISA Detection (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
Western Blot	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 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 human IL-13 Rα1 was originally cloned based on sequence homology to the mouse IL-13 Rα1. The IL-13 Rα1 cDNA encodes a 427 amino acid (aa) precursor protein with a putative 21 aa signal peptide, a 324 aa extracellular domain, a 23 aa transmembrane region and a 59 aa cytoplasmic tail. Human and mouse IL-13 Rα1 share 76% aa sequence identity. The extracellular domain of IL-13 Rα1 is also closely related to that of IL-13 Rα2. IL-13 Rα1 has been shown to combine with the IL-4 Rα to form a high-affinity receptor complex capable of transducing an IL-13-dependent proliferative signal.

PRODUCT SPECIFIC NOTICES

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