**Human IL-13 Rα1 Fluorescein-conjugated Antibody**

**Monoclonal Mouse IgG<sub>2B</sub> Clone # 419718**

**Catalog Number:** FAB1462F

**100 Tests**

### 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 Rβ, or rhIL-9 R is observed.

**Source**
- Monoclonal Mouse IgG<sub>2B</sub> Clone # 419718

**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**
- Fluorescein
  - Excitation Wavelength: 488 nm
  - Emission Wavelength: 515-545 nm (FITC)

**Formulation**
- Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.

*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.

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<th>Application</th>
<th>Recommended Concentration</th>
<th>Sample</th>
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<td>Flow Cytometry</td>
<td>10 µL/10&lt;sup&gt;6&lt;/sup&gt; cells</td>
<td>See Below</td>
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### DATA

**Flow Cytometry**

**Detection of IL-13 Rα1 in Human Blood Granulocytes by Flow Cytometry.** Human peripheral blood granulocytes were stained with (A) Mouse Anti-Human Siglec-3/CD33 PE-conjugated Monoclonal Antibody (Catalog # FAB1137P) and (B) Mouse Anti-Human IL-13 Rα1 Fluorescein-conjugated Monoclonal Antibody (Catalog # FAB1462F, filled histogram) or isotype control antibody (Catalog # IC0041F, open histogram). View our protocol for Staining Membrane-associated Proteins.

### 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 hematopoietin 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, 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. The role of IL-13 Rα2 in IL-13 signaling remains to be elucidated.