

DESCRIPTION

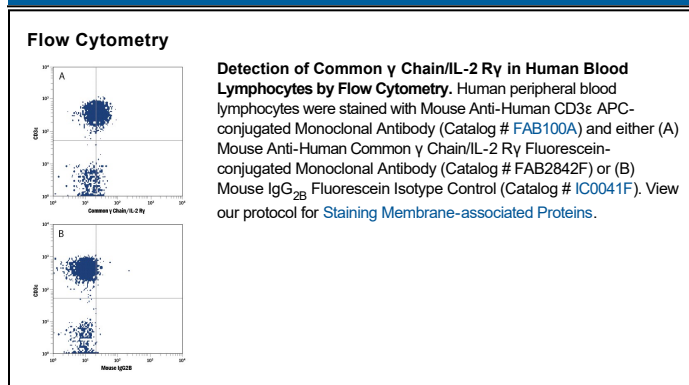
Species Reactivity	Human
Specificity	Detects human Common γ Chain/IL-2 R γ in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) IL-2 R α , rhIL-2 R β , rhIL-15 R α , recombinant mouse IL-2 R γ , or recombinant canine IL-2 R α is observed. In Western blots, approximately 80% cross-reactivity with rhIL-2 R β , 50% cross-reactivity with rhIL-15 R α and recombinant mouse IL-2 R α , and no cross-reactivity with rhIL-2 R α is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 633162
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf21-derived recombinant human Common γ Chain/IL-2 R γ Leu23-Asn254 Accession # P31785
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.

	Recommended Concentration	Sample
Flow Cytometry	10 μ L/10 ⁶ cells	See Below

DATA



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. <ul style="list-style-type: none"> ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

The γ chain of the high affinity functional human IL-2 Receptor complex belongs to the hematopoietin receptor family. IL-2 R γ is a 369 amino acid (aa) protein consisting of a 22 aa signal sequence, a 232 aa extracellular domain, a 29 aa transmembrane domain and an 86 aa cytoplasmic domain. Although IL-2 R γ by itself does not bind IL-2 with any appreciable affinity, it is required for IL-2 Receptor signaling. Besides IL-2, the γ chain has been shown to be a component of the functional receptor complexes for IL-4, IL-7, IL-9 and IL-15. IL-2 R γ has been designated the Common γ Chain (γ_c). The site of molecular defects in X-linked SCID (Severe Combined Immunodeficiency) has been mapped to the IL-2 R γ gene.

References:

1. Minami, Y. *et al.* (1993) *Annu. Rev. Immunol.* **11**:245.
2. Noguchi, M. *et al.* (1993) *Science* **262**:1877.