

Human Common γ Chain/IL-2 R γ Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 633162

Catalog Number: FAB2842R

100 μ g

DESCRIPTION

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|---------------------------|--|
| 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 recombinant human IL-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 γ Leu23-Asn254 Accession # P31785 |
| Conjugate | Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm |
| Formulation | Supplied 0.2 mg/mL 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 | 0.25-1 μ g/10 ⁶ cells | Human peripheral blood lymphocytes |

PREPARATION AND STORAGE

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| 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 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.

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