Human Common γ Chain/IL-2 Rγ PE-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 31134

Catalog Number: IC2841P

100 TESTS

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Common γ Chain/IL-2 Rγ in direct ELISAs.
Source	Monoclonal Mouse IgG_{2A} Clone # 31134
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*S. frugiperda* insect ovarian cell line *Sf* 21-derived recombinant human Common γ Chain/IL-2 Rγ Leu23-Asn254 Accession # P31785
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm
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.

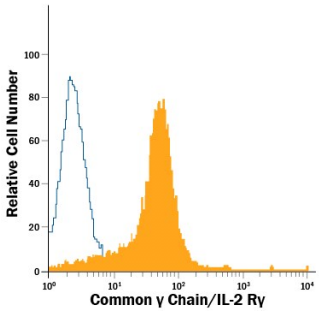
APPLICATIONS

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
Intracellular Staining by Flow Cytometry	10 µL/10^6 cells	See Below

DATA

Intracellular Staining by Flow Cytometry



Detection of Common γ Chain/IL-2 Rγ in Jurkat Human Cell Line by Flow Cytometry. Jurkat human acute T cell leukemia cell line was stained with Mouse Anti-Human Common γ Chain/IL-2 Rγ PE-conjugated Monoclonal Antibody (Catalog # IC2841P, filled histogram) or isotype control antibody (Catalog # IC003P, open histogram). View our protocol for Staining Intracellular Molecules.

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

The γ chain of the high affinity functional human IL-2 receptor complex belongs to the hematopoietin receptor family. IL-2 Rγ is a 369 amino acid residue protein consisting of a 22 residue signal sequence, a 232 residue extracellular domain, a 29 residue transmembrane domain and an 86 residue cytoplasmic domain. Although IL-2 Rγ 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. It has been proposed that IL-2 Rγ be designated the common γ chain (γ_c). The site of molecular defects in X-linked SCID (severe combined immunodeficiency) has now been mapped to the IL-2 Rγ 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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