

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Common γ Chain/IL-2 R γ in direct ELISAs and Western blots. In Western blots, approximately 5% cross-reactivity with recombinant human (rh) IL-2 R γ is observed and less than 1% cross-reactivity with rhIL-2 R α , recombinant mouse IL-2
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant mouse Common γ Chain/IL-2 R γ Ser25-Ala263 Accession # Q3UPA9
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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.

Neutralization	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

The γ chain of the high affinity functional mouse IL-2 receptor complex belongs to the hematopoietin receptor family. Mouse Common gamma Chain is a 369 amino acid residue protein consisting of a 22 residue signal sequence, a 241 residue extracellular domain, a 21 residue transmembrane domain and an 85 residue cytoplasmic domain. Although Common gamma Chain 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 is also designated the common γ chain (γ_c) (1, 2). The site of molecular defects in human X-linked SCID (severe combined immunodeficiency) has been mapped to the human common gamma gene.

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