

Datasheet for ABIN135409

anti-IL2 Receptor beta antibody (FITC)



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1 Image

Overview

Quantity:	0.5 mg
Target:	IL2 Receptor beta (IL2RB)
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This IL2 Receptor beta antibody is conjugated to FITC
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Rat myeloma YB2/0 transfected with truncated IL-2Rbeta cDNA (YB2/0-mbetat-28)
Clone:	5H4
Isotype:	IgG2a
Specificity:	Mouse CD122, 90-100 kDa
Characteristics:	Rat Anti-Mouse CD122-FITC

Target Details

Target:	IL2 Receptor beta (IL2RB)
Alternative Name:	CD122 (IL2RB Products)
Background:	The IL-2 receptor is a complex of three distinct polypeptide chains: (i) the chain which binds IL-2 with low affinity, (ii) the chain that binds IL-2 with high affinity, and (ii) the common chain (C)

Target Details

that does not bind IL-2. The high affinity receptor complex is an $\alpha/\beta/\gamma$ heterotrimer with a K_D of 1.3×10^{-11} M. In mouse spleen, CD122 is expressed on 30 % of CD8+ cells and all NK cells, but < 1 % of B cells and CD4+ T lymphocytes. In the thymus, its expression is confined to CD4-CD8+ single positive and CD4-CD8- double negative cells. Cytoplasmic regions of the IL-2R chain are involved in IL-2-mediated cellular signaling and, via the interaction of IL-2 and its receptor complex, may be involved in the generation and differentiation of T lymphocytes.

Pathways: [JAK-STAT Signaling, Growth Factor Binding](#)

Application Details

Application Notes:

- **Applications:** FC - Quality tested , IP - Reported in literature
- **Working Dilutions:** Flow Cytometry FITC and BIOT conjugates 1 g/10⁶ cells PE and APC conjugates 0.2 g/10⁶ cells For flow cytometry, the suggested use of these reagents is in a final volume of 100 L

Sample Volume: 1 mL

Restrictions: For Research Use only

Handling

Concentration: 0.5 mg/mL

Buffer: 0.5 mg in 1.0 mL of PBS/Sodium azide

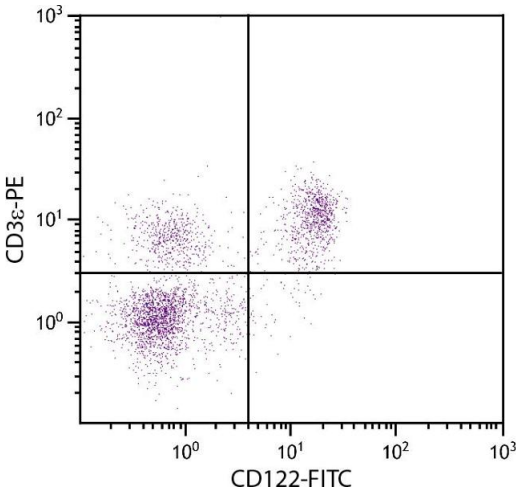
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: **Protect conjugated products from light.**
Each reagent is stable for the period shown on the bottle label if stored as directed.

Storage: 4 °C

Storage Comment: Store at 2-8°C



Flow Cytometry

Image 1. BALB/c mouse splenocytes were stained with Rat Anti-Mouse CD112-FITC.