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# anti-IL2 Receptor beta antibody (PE)



Image



## Overview

Quantity:	0.1 mg
Target:	IL2 Receptor beta (IL2RB)
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This IL2 Receptor beta antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

## **Product Details**

Immunogen:	Rat myeloma YB2/0 transfected with truncated IL-2Rbeta cDNA (YB2/0-mbetat-28)
Clone:	5H4
Isotype:	lgG2a
Specificity:	Mouse CD122, 90-100 kDa
Characteristics:	Rat Anti-Mouse CD122-PE
Purification:	Purified

# 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 $\alpha$ chain which binds

IL-2 with low affinity, (ii) the  $\beta$  chain that binds IL-2 with high affinity, and (ii) the common  $\gamma$  chain (  $\gamma$  C ) that does not bind IL-2. The high affinity receptor complex is an  $\alpha$  /  $\beta$  /  $\gamma$  heterotrimer with a K d of 1.3 x 10 -11 M. In mouse spleen, CD122 is expressed on approx. 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  $\beta$  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:

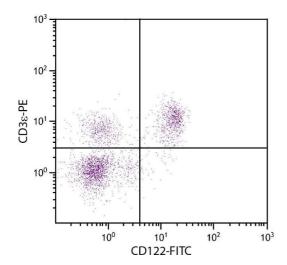
1 mL

Restrictions:

For Research Use only

## Handling

Concentration:	0.1 mg/mL
Buffer:	0.1 mg in 1.0 mL of PBS/Sodium azide and a stabilizing agent
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:	Do not freeze!
	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.