Datasheet for ABIN135408

anti-IL2 Receptor beta antibody

1 Image

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Overview

Quantity:	0.5 mg
Target:	IL2 Receptor beta (IL2RB)
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This IL2 Receptor beta antibody is un-conjugated
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
Cross-Reactivity (Details):	Cross-reactivity with Stat1 from other sources has not been determined.
Predicted Reactivity:	A BLAST analysis was used to suggest cross-reactivity with Stat1 from mouse and rat based on 100% homology with the immunizing sequence. Partial reactivity is expected against Stat1 from human sources as 90% homology is noted.
Characteristics:	Rat Anti-Mouse CD122-UNLB
Purification:	Purified

Target Details

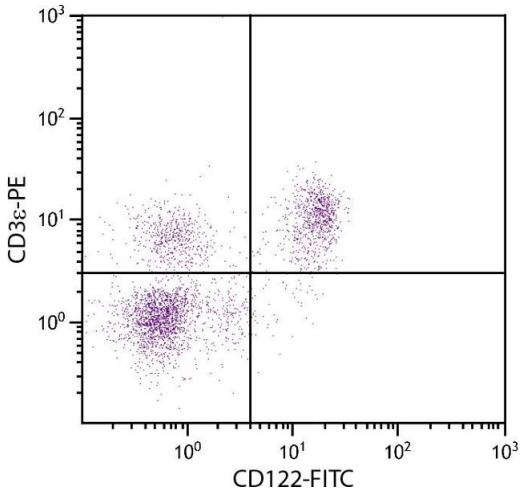
Target:	IL2 Receptor beta (IL2RB)
Alternative Name:	CD122 (IL2RB Products)
Background:	The IL-2 receptor is a complex of three distinct polypeptide chains: (i) the chain which binds IL-2 with low affinity, (ii) the chain that binds IL-2 with high affinity, and (ii) the common chain (C) that does not bind IL-2. The high affinity receptor complex is an α/β/γ heterotrimer with a kDa of 1.3 x 10-11 M.2 In mouse spleen, CD122 is expresed 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 of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. No preservatives or amine-containing buffer salts added
Preservative:	Without preservative
Handling Advice:	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.