

## Product Information

Contents: Affinity Purified anti-mouse CD122 (interleukin-2 receptor  $\beta$ , IL-2R $\beta$ )

Catalog Number: 14-1221

Sizes: 50  $\mu$ g, 100  $\mu$ g, 500  $\mu$ g

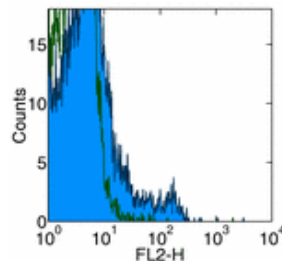
Formulation: Phosphate buffer pH 7.2,  
150 mM NaCl, 0.09% NaN<sub>3</sub>

Storage Conditions: Store at 4°C.

Avoid repeated freeze/thaw cycles.

Clone: 5H4

Isotype: Rat IgG2a,  $\kappa$



Surface staining of mouse splenocytes with anti-mouse CD122 (5H4) PE. Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

### Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
12-1221	PE anti-mouse CD122 (Interleukin-2 Receptor beta, IL-2 Receptor beta, IL-2Rb)	488	575	FC
13-1221	Biotin anti-mouse CD122 (Interleukin-2 Receptor beta, IL-2 Receptor beta, IL-2Rb)	N/A	N/A	FC
14-1221	Affinity Purified anti-mouse CD122 (Interleukin-2 Receptor beta, IL-2 Receptor beta, IL-2Rb)	N/A	N/A	FC IP
16-1221	Functional Grade* Purified anti-mouse CD122 (Interleukin-2 Receptor beta, IL-2 Receptor beta, IL-2Rb)	N/A	N/A	FC

\*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/ $\mu$ g.  
Purified: Contains azide, not sterile-filtered, and not endotoxin tested.

### Description

The 5H4 antibody reacts with mouse CD122, the 90-110 kDa interleukin-2 receptor  $\beta$  chain (IL-2R $\beta$ ). CD122 is expressed by NK cells and some T cells in the periphery and is upregulated by activation. CD122 associates with CD25 and CD132 (common  $\gamma$  chain) to form the high affinity IL-2 receptor. Binding of IL-2 to CD122 is not inhibited by the 5H4 antibody.

### Usage

For research use only, not for diagnostic or therapeutic use. The 5H4 antibody has been reported for use in flow cytometric analysis, and immunoprecipitation.

### Applications Tested

The 5H4 antibody has been tested by flow cytometric analysis of resting and activated mouse splenocyte suspensions. This can be used at less than or equal to 0.5  $\mu$ g per million cells in a 100  $\mu$ l total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### Related Products

Cat. 12-1221	PE anti-mouse CD122 (Interleukin-2 Receptor beta, IL-2 Receptor beta, IL-2Rb) (clone 5H4)
Cat. 13-1221	Biotin anti-mouse CD122 (Interleukin-2 Receptor beta, IL-2 Receptor beta, IL-2Rb) (clone 5H4)
Cat. 16-1221	Functional Grade Purified anti-mouse CD122 (Interleukin-2 Receptor beta, IL-2 Receptor beta, IL-2Rb) (clone 5H4)
Cat. 11-4317	Streptavidin-FITC (Fluorescein isothiocyanate)
Cat. 12-4317	Streptavidin-PE (Phycoerythrin)
Cat. 17-4317	Streptavidin Allophycocyanin (SA-APC)
Cat. 14-4321	Affinity Purified Rat IgG2a Isotype Control
Cat. 11-4811	FITC Anti-Rat IgG
Cat. 13-4813	Biotin Anti-Rat IgG (clone Polyclonal)

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References

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Malek, T. R., R. K. Furse, et al. (1995). "Biochemical identity and characterization of the mouse interleukin-2 receptor beta and gamma c subunits." J Interferon Cytokine Res 15(5): 447-54.

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