

## Product Information

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

Catalog Number: 12-1221

Sizes: 50  $\mu$ g, 100  $\mu$ g, 200  $\mu$ g

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

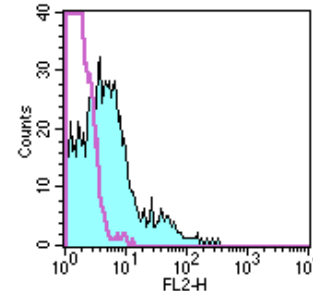
Storage Conditions: Store at 4°C.

DO NOT FREEZE.

LIGHT-SENSITIVE MATERIAL.

Clone: 5H4

Isotype: Rat IgG2a,  $\kappa$



Staining of BALB/c splenocytes with staining buffer (autofluorescence) (open histogram) or 0.125  $\mu$ g of PE 5H4 (colored 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.

## 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 0.125  $\mu$ 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. 13-1221 Biotin anti-mouse CD122 (Interleukin-2 Receptor beta, IL-2 Receptor beta, IL-2Rb) (clone 5H4)
- Cat. 14-1221 Affinity Purified 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. 12-4321 PE Rat IgG2a Isotype Control

## 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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