

Technical Data Sheet

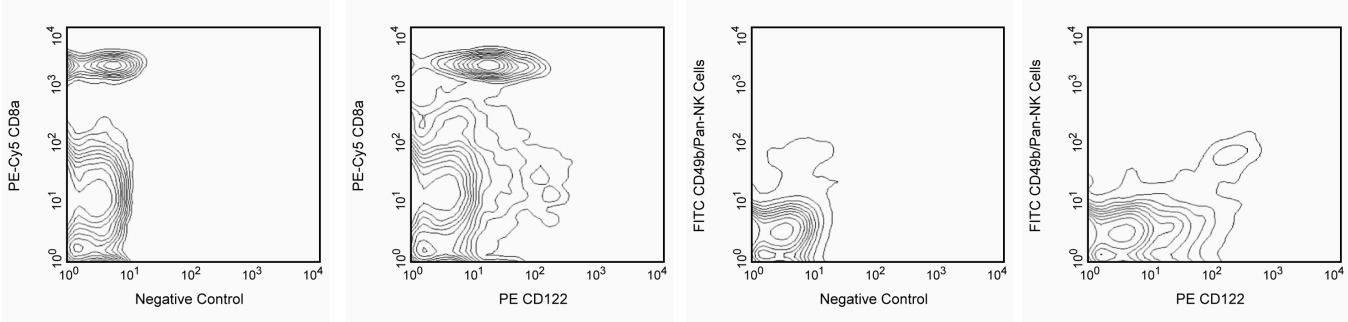
PE Rat Anti-Mouse CD122

Product Information

Material Number:	553362
Alternate Name:	IL-2 and IL-15 Receptor β Chain
Size:	0.2 mg
Concentration:	0.2 mg/ml
Clone:	TM-Beta 1
Immunogen:	
Isotype:	Rat (SD) IgG2b, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The TM- β 1 antibody reacts with the 90-100-kDa β chain shared by the IL-2 and IL-15 receptors (IL-2R β , CD122). In the periphery, CD122 is expressed on CD8+ T lymphocytes, NK cells, NK-T cells, dendritic epidermal T cells, subsets of intraepithelial lymphocytes, and macrophages. Small subsets of fetal and adult thymocytes constitutively express CD122. CD122+ cells in the bone marrow include committed NK-cell progenitors. IL-2R β expression is upregulated by IL-2. CD122 is a transmembrane glycoprotein of the hematopoietin receptor superfamily which can combine with CD132 (γ c) alone or CD132 plus CD25 (IL-2R α) to form intermediate or high-affinity IL-2 receptor complexes, respectively. The β chain of these complexes, CD122, is involved in signal transduction and immunoregulation. The TM- β 1 antibody blocks high affinity binding of IL-2 or IL-15 to IL-2R β .



Three-color analysis of the expression of CD122 on mouse spleen cells. BALB/c splenocytes were simultaneously stained with PE-Cy5-conjugated anti-mouse CD8a mAb 53-6.7 (Cat. No. 553034, left panels), FITC-conjugated anti-mouse CD49b/Pan-NK Cells mAb DX5 (Cat. No. 553857, right panels), and PE-conjugated mAb TM- β 1 (middle left and far right panels). Flow cytometry was performed on a BD FACScan™ flow cytometry system.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed. Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Routinely Tested
Blocking	Reported

Suggested Companion Products

Catalog Number	Name	Size	Clone
553989	PE Rat IgG2b, κ Isotype Control	0.1 mg	A95-1

Product Notices

- Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
- For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
- Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

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References

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