

## Technical Data Sheet

## Purified NA/LE Rat Anti-Mouse CD122

## Product Information

<b>Material Number:</b>	553359
<b>Alternate Name:</b>	IL-2 and IL-15 Receptor $\beta$ Chain
<b>Size:</b>	0.5 mg
<b>Concentration:</b>	1.0 mg/ml
<b>Clone:</b>	TM-Beta 1
<b>Isotype:</b>	Rat (SD) IgG2b, $\kappa$
<b>Reactivity:</b>	QC Testing: Mouse
<b>Storage Buffer:</b>	No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2 $\mu$ m sterile filtered. Endotoxin level is $\leq 0.01$ EU/ $\mu$ g ( $\leq 0.001$ ng/ $\mu$ g) of protein as determined by the LAL assay.

## Description

The TM- $\beta$ 1 antibody reacts with the 90-100-kDa  $\beta$  chain shared by the IL-2 and IL-15 receptors (IL-2R $\beta$ , 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 $\beta$  expression is upregulated by IL-2. CD122 is a transmembrane glycoprotein of the hematopoietin receptor superfamily which can combine with CD132 ( $\gamma$ c) alone or CD132 plus CD25 (IL-2R $\alpha$ ) to form intermediate or high-affinity IL-2 receptor complexes, respectively. The  $\beta$  chain of these complexes, CD122, is involved in signal transduction and immunoregulation. The TM- $\beta$ 1 antibody blocks high affinity binding of IL-2 or IL-15 to IL-2R $\beta$ .

## Preparation and Storage

Store undiluted at 4°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

This preparation contains no preservatives, thus it should be handled under aseptic conditions.

## Application Notes

## Application

Flow cytometry	Routinely Tested
Blocking	Reported
Immunoprecipitation	Reported

## Suggested Companion Products

Catalog Number	Name	Size	Clone
553985	Purified NA/LE Rat IgG2b, $\kappa$ Isotype Control	0.5 mg	A95-1
554016	FITC Goat Anti-Rat Ig	0.5 mg	Polyclonal

## Product Notices

- Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- Please refer to [www.bdbiosciences.com/pharmingen/protocols](http://www.bdbiosciences.com/pharmingen/protocols) for technical protocols.

## References

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