

## Product datasheet for **SM2224LE**

### IL2rb Rat Monoclonal Antibody [Clone ID: TM-BETA1]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	TM-BETA1
Applications:	FC, FN, IP
Recommended Dilution:	Flow Cytometry: 1/10 - 1/50; Use 10µl of the suggested working dilution to label 10e6 cells in 100µl. Immunoprecipitation. Functional Assays.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Cells from murine IL-2RB+ transformant TART-mBeta. Lymph node (cells from immunised Sprague Dawley rats were fused with cells of the mouse PA1 myeloma cell line.
Specificity:	This antibody recognises the CD122 cell surface glycoprotein. Clone TM-beta 1 is reported to block IL-2 high affinity binding to the IL-2R beta receptor. We recommend the use of SM2224LE for this purpose.
Formulation:	PBS, pH7.4 State: Low Endotoxin State: Liquid purified IgG
Concentration:	lot specific
Purification:	Affinity chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store the antibody at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	interleukin 2 receptor, beta chain
Database Link:	<a href="#">Entrez Gene 16185 Mouse P16297</a>



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**Background:**

CD122 is a 75-85kD molecule also known as interleukin-2 receptor (IL-2R) beta chain. In mouse, CD122 is primarily expressed on natural killer (NK) cells and at lower levels on lymphocyte subsets, monocytes and macrophages. CD122 can associate with the IL-2R alpha chain (CD25) and CD132 to form a functional high affinity receptor complex that binds IL-2. CD132/CD122 heterodimers can also be formed which bind IL-2 with intermediate affinity. IL-2 binding to the IL-2R is important in the generation and differentiation of T lymphocytes and NK cells.

**Synonyms:**

Interleukin-2 receptor subunit beta, IL-2 receptor subunit beta, IL2 Receptor beta, P70-75