

Product datasheet for **SM2224PS**

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

Product data:

Product Type:	Primary Antibodies
Clone Name:	TM-BETA1
Applications:	FC, IP
Recommended Dilution:	Flow Cytometry: Use 10 µl of 1/50-1/100 diluted antibody to label 10e6 cells in 100 µl. Immunoprecipitation.
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, pH 7.4 containing 0.09% Sodium Azide as preservative. State: Purified State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	interleukin 2 receptor, beta chain
Database Link:	Entrez Gene 16185 Mouse P16297



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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