

Product datasheet for **AM08078BT-N**

IL2rb Rat Monoclonal Antibody [Clone ID: 5H4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	5H4
Applications:	FC
Recommended Dilution:	Flow Cytometry: < / = 1 µg/10e6 cells. (Ref.1)
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Rat myeloma YB2/0 transfected with truncated mouse IL-2RB cDNA. (Ref.1)
Specificity:	This antibody recognises beta chain (Mr. 90-100 kDa) of the IL-2 Receptor. It does not block IL-2 binding. (Ref.1)
Formulation:	PBS containing 0.09% Sodium Azide as preservative. Label: Biotin State: Liquid purified Ig fraction.
Concentration:	lot specific
Conjugation:	Biotin
Storage:	Store the antibody undiluted at 2-8°C for one month or in (aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. 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:

The IL-2 receptor is a complex of three distinct polypeptide chains: (i) the alpha chain which binds IL-2 with low affinity; (ii) the beta chain that binds IL-2 with high affinity; and (iii) the common gamma chain (gc) that does not bind IL-2. (Ref.2) The high affinity receptor complex is an alpha/beta/gamma heterotrimer with a K_d of 1.3×10^{-11} M. (Ref.2) In mouse spleen, CD122 is expressed on ~30% of CD8+ cells and all NK cells, but < 1% of B cells and CD4+ T lymphocytes. In the thymus, its expression is confined to CD4-CD8+ single positive and CD4-CD8- double negative cells. (Ref.4) Cytoplasmic regions of the IL-2R beta chain are involved in IL-2-mediated cellular signaling and, via the interaction of IL-2 and its receptor complex, may be involved in the generation and differentiation of T lymphocytes. (Ref.1,4)

Synonyms:

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