

## Product datasheet for **AM08078AC-N**

### **IL2rb Rat Monoclonal Antibody [Clone ID: 5H4]**

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	5H4
Applications:	FC
Recommended Dilution:	<b>Flow Cytometry:</b> < / = 0.2 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 and a stabilizing agent. Label: APC State: Liquid purified Ig fraction. Label: Allophycocyanin
Concentration:	lot specific
Conjugation:	APC
Storage:	Store the antibody undiluted at 2-8°C. <b>DO NOT FREEZE!</b> 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:	<a href="#">Entrez Gene 16185 Mouse P16297</a>



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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  $1.3 \times 10^{-11}$  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