

Product datasheet for AM08078FC-N

Il2rb Rat Monoclonal Antibody [Clone ID: 5H4]

Product data:

Product Type: Primary Antibodies

Clone Name: 5H4
Applications: FC

Recommended Dilution: Flow Cytometry: < / = 1 μ g/10e6 cells. (Ref.1)

Reactivity:MouseHost:RatIsotype: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: FITC

State: Liquid purified Ig fraction.

Label: Fluorescein Isothiocyanate Isomer 1

Concentration: lot specific

Conjugation: FITC

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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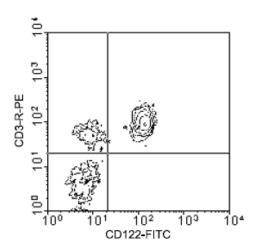
Background:

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 (ii) 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 Kd of 1.3 x 10e-11 M. (Ref.2) In mouse spleen, CD122 is expressed on \sim 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

Product images:



Immunofluorescent Staining: BALB/c lymph node cells were double stained with Rat anti-Mouse CD3e-PE and Rat anti-Mouse CD122-FITC. Small lymphocytes were gated and analyzed on a FACScan (TM) flow cytometer (BDIS, San Jose, CA). Amount Used: 1 ug/10e6 cells.