

## Product datasheet for **SM3151B**

### IL2 Receptor alpha (IL2RA) Mouse Monoclonal Antibody [Clone ID: MEM-140]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-140
Applications:	FC, IP
Recommended Dilution:	Flow Cytometry: 1:200 (starting point).
Reactivity:	Human
Host:	Mouse
Isotype:	IgM
Clonality:	Monoclonal
Immunogen:	PHA-activated peripheral blood leucocytes
Specificity:	This antibody reacts with CD25 (Interleukin-2 receptor $\alpha$ chain), a 55 kDa type I transmembrane glycoprotein expressed on activated B and T lymphocytes, activated monocytes/macrophages and on CD4 <sup>+</sup> T lymphocytes (T regulatory cells); it is lost on resting B and T lymphocytes.
Formulation:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4 Label: Biotin State: Liquid purified Ig fraction Label: Conjugated with -LC-NHS under optimum conditions. The reagent is free of unconjugated biotin
Concentration:	lot specific
Conjugation:	Biotin
Storage:	Store the antibody undiluted at 2 - 8 °C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.
Gene Name:	interleukin 2 receptor subunit alpha
Database Link:	<a href="#">Entrez Gene 3559 Human P01589</a>



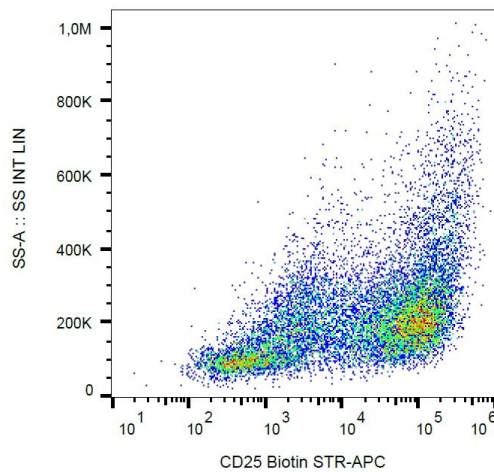
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**Background:**

CD25 (IL2Ralpha, Tac) is a ligand-binding alpha subunit of interleukin 2 receptor (IL2R). Together with beta and gamma subunit CD25 constitutes the high affinity IL2R, whereas CD25 alone serves as the low affinity IL2R. CD25 expression rapidly increases upon T cell activation. The 55 kDa CD25 molecule is enzymatically cleaved and shed from the cell surface as a soluble 45 kDa s-Tac, whose concentration in serum can be used as a marker of T cell activation. Expression of CD25 indicates the neoplastic phenotype of mast cells. Humanized anti CD25 antibodies represent a useful tool to reduce the incidence of allograft rejection as well as the severity of graft versus host reaction, and radioimmunoconjugates of anti-CD25 antibodies can be used against CD25 expressing lymphomas.

**Synonyms:**

Interleukin-2 receptor alpha chain, IL-2 receptor alpha subunit, IL-2-RA, IL2-RA, p55, TAC antigen

**Product images:**

Surface staining of CD25 in PHA activated PBMC with anti-CD25 (MEM-140) biotin, streptavidin-APC.