

Product datasheet for **SM3015P**

IL2 Receptor alpha (IL2RA) Mouse Monoclonal Antibody [Clone ID: MEM-181]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-181
Applications:	FC
Recommended Dilution:	Flow cytometry: Recommended dilution: 1-5 µg/ml.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	PHA-activated peripheral blood leucocytes
Specificity:	The antibody reacts with CD25 (Interleukin-2 receptor α chain), a 55 kDa type I transmembrane glycoprotein expressed on activated B and T lymphocytes, activated monocytes/macrophages and on CD4 ⁺ T lymphocytes (T regulatory cells); it is lost on resting B and T lymphocytes.
Formulation:	Phosphate buffered saline (PBS), pH~7.4 containing 15 mM Sodium Azide as preservative State: Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE)
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.
Gene Name:	interleukin 2 receptor subunit alpha
Database Link:	Entrez Gene 3559 Human P01589



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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

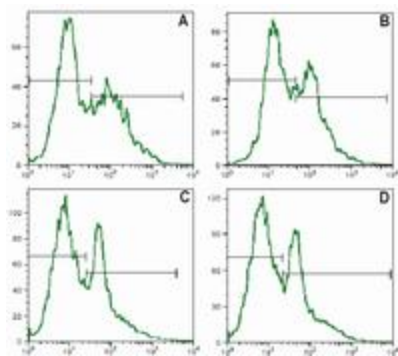
Product images:

Figure 1. Surface staining of human PBMC with anti-human CD25 (MEM-181) FITC. The mononuclear cells were isolated from human peripheral blood, divided in aliquots for duplicate analysis and stimulated with PHA for 2 days. Panel A, C: staining with the anti-human CD25 (MEM-181). Panel B, D: staining with the standard anti-CD25 monoclonal antibody