

## Datasheet

### IL2RA monoclonal antibody, clone MEM-181 (FITC)

**Catalog Number:** MAB4582

**Regulatory Status:** For research use only (RUO)

**Product Description:** Mouse monoclonal antibody raised against native IL2RA.

**Clone Name:** MEM-181

**Immunogen:** Native purified IL2RA from PHA-activated peripheral blood leucocytes.

**Host:** Mouse

**Theoretical MW (kDa):** 55

**Reactivity:** Human

**Applications:** Flow Cyt  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at <http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**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+ T lymphocytes (T regulatory cells); it is lost on resting B and T lymphocytes.

**Form:** Liquid

**Conjugation:** FITC

**Isotype:** IgG1

**Recommend Usage:** Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10<sup>6</sup> cells in a suspension)

The optimal working dilution should be determined by the end user.

**Storage Buffer:** In PBS (0.2% BSA, 0.09% sodium azide)

**Storage Instruction:** Store in the dark at 4 °C. Do not freeze.

Avoid prolonged exposure to light.

Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 3559

**Gene Symbol:** IL2RA

**Gene Alias:** CD25, IDDM10, IL2R, TCGFR

**Gene Summary:** The interleukin 2 (IL2) receptor alpha (IL2RA) and beta (IL2RB) chains, together with the common gamma chain (IL2RG), constitute the high-affinity IL2 receptor. Homodimeric alpha chains (IL2RA) result in low-affinity receptor, while homodimeric beta (IL2RB) chains produce a medium-affinity receptor. Normally an integral-membrane protein, soluble IL2RA has been isolated and determined to result from extracellular proteolysis. Alternately-spliced IL2RA mRNAs have been isolated, but the significance of each is presently unknown. [provided by RefSeq]

#### References:

1. CD25 indicates the neoplastic phenotype of mast cells: a novel immunohistochemical marker for the diagnosis of systemic mastocytosis (SM) in routinely processed bone marrow biopsy specimens. Sotlar K, Horny HP, Simonitsch I, Krokowski M, Aichberger KJ, Mayerhofer M, Printz D, Fritsch G, Valent P. *Am J Surg Pathol.* 2004 Oct;28(10):1319-25.
2. Advances in interleukin 2 receptor targeted treatment. Morris JC, Waldmann TA. *Ann Rheum Dis.* 2000 Nov;59 Suppl 1:i109-14.
3. The interleukin-2 receptor in human monocytes and macrophages: regulation of expression and release of the alpha and beta chains (p55 and p75). Scheibenbogen C, Keilholz U, Richter M, Andreesen R, Hunstein W. *Res Immunol.* 1992 Jan;143(1):33-7.