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30-1843: Anti-CD25 / IL-2R alpha chain Monoclonal Antibody (Clone:MEM-181)-Biotin Conjugated

Clonality: Monoclonal **Clone Name:** MEM-181 Application: **FACS** Reactivity: Human Conjugate: Biotin Gene: II 2RA Gene ID: 3559 **Uniprot ID:** P01589 **Alternative Name:** II 2RA Isotype: Mouse IgG1

Immunogen Information: PHA-activated peripheral blood leucocytes

Description

Specificity: The antibody MEM-181 reacts with an extracellular epitope of 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.

Description: CD25 (IL2Ralpha, Tac) is a ligand-binding alpha subunit of interleukin 2 receptor (IL2R). Together with beta and gamma subunit CD25 constitues 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.

Product Info

Amount: 0.1 mg

Purification: Purified antibody is conjugated with biotin LC-NHS ester under optimum conditions and

unconjugated antibody and free biotin are removed by size-exclusion chromatography.

Content: Formulation: Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide

Storage condition : Store at 2-8°C. Do not freeze.

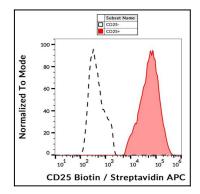
Application Note

Flow cytometry: Recommended dilution: 1-2 μg/ml.



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 $Fig1: Flow\ cytometry\ analysis\ (surface\ staining)\ of\ PHA-stimulated\ (3\ days)\ human\ PBMC\ with\ anti-CD25\ (MEM-181)\ biotin,\ streptavidin-APC.$