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Datasheet for ABIN1027672
anti-CD25 antibody (PerCP)

3 Images

1 Publication

Overview

Quantity:	100 tests
Target:	CD25 (IL2RA)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD25 antibody is conjugated to PerCP
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	PHA-activated peripheral blood leucocytes
Clone:	MEM-181
Isotype:	IgG1
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.
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with activated Peridinin-Chlorophyll Protein (PerCP) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target: CD25 (IL2RA)

Alternative Name: CD25 ([IL2RA Products](#))

Background: Interleukin 2 receptor subunit alpha,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.,IL-2R α , chain, IL-2-RA, IL2-RA, p55, TAC antigen, IDDM10, TCGFR

Gene ID: 3559

UniProt: [P01589](#)

Pathways: [JAK-STAT Signaling](#), [Growth Factor Binding](#), [Activated T Cell Proliferation](#)

Application Details

Application Notes: Flow cytometry: The reagent is designed for analysis of human blood cells using 10 μ L reagent / 100 μ L of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

Comment: The purified antibody is conjugated with Peridinin-chlorophyll-protein complex (PerCP) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.

Restrictions: For Research Use only

Handling

Reconstitution: No reconstitution is necessary.

Buffer: Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Handling Advice:

Do not freeze.

Avoid prolonged exposure to light.

Storage:

4 °C

Storage Comment:

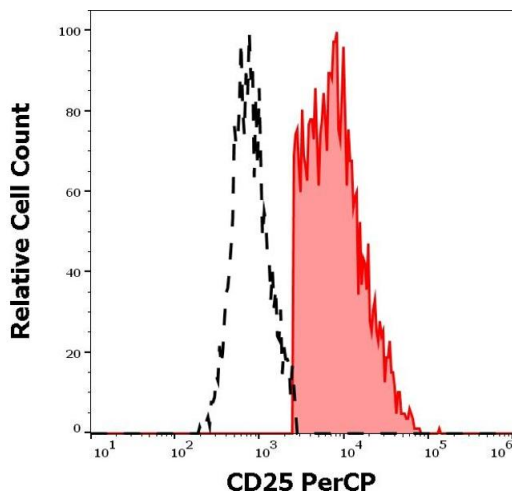
Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in:

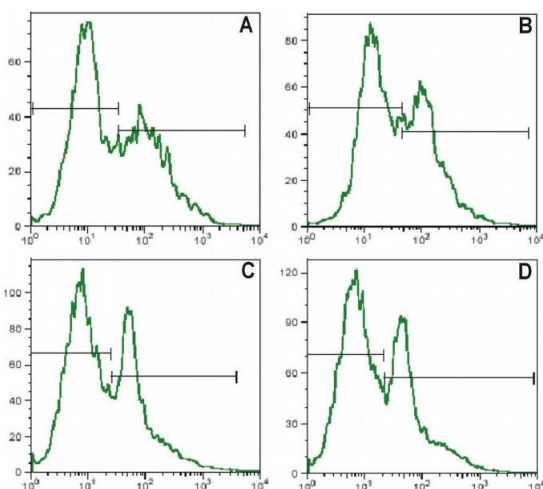
Drbal, Moertelmaier, Holzhauser, Muhammad, Fuertbauer, Howorka, Hinterberger, Stockinger, Schütz: "Single-molecule microscopy reveals heterogeneous dynamics of lipid raft components upon TCR engagement." in: **International immunology**, Vol. 19, Issue 5, pp. 675-84, (2007) ([PubMed](#)).

Images



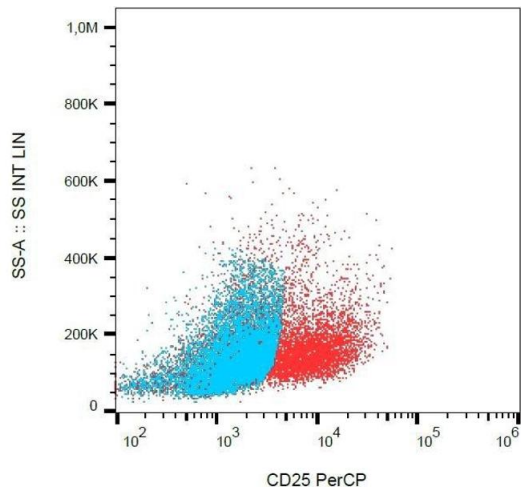
Flow Cytometry

Image 1. Separation of CD25 positive cells stained using anti-human CD25 (MEM-181) PerCP antibody (10 µL reagent per million cells in 100 µL of cell suspension, red-filled) from cells stained using mouse IgG1 isotype control (MOPC-21) PerCP antibody (concentration in sample 3 µg/mL, same as CD25 PerCP concentration, black-dashed) in flow cytometry analysis (surface staining) of human PHA stimulated peripheral blood mononuclear cells.



Flow Cytometry

Image 2. 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 anti-human CD25 Panel B, D – staining with a standard anti-CD25 monoclonal antibody



Flow Cytometry

Image 3. Surface staining of PHA-stimulated (3 days) human PBMC with anti-CD25 (MEM-181) PerCP.