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Datasheet for ABIN125691 anti-CD25 antibody (APC)

2 Images

1 Publication



Overview

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

Product Details

Immunogen:	PHA-activated peripheral blood leucocytes	
Clone:	MEM-181	
Isotype:	lgG1	
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 allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.	

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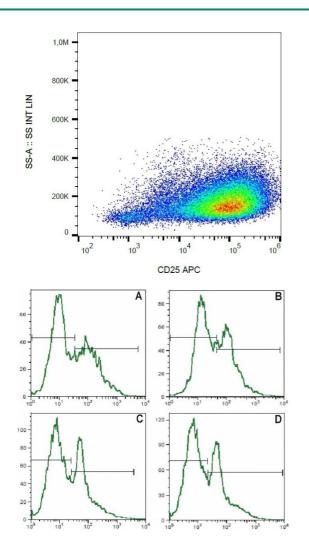
Target Details		
Target:	CD25 (IL2RA)	
Alternative Name:	CD25 (IL2RA Products)	
Background:	Interleukin 2 receptor subunit alpha,CD25 (IL2Ralpha, Tac) is a ligand-binding alpha subunit of interleukin 2 receptor (IL2R). Together with beta and gamma subunit CD25 constitues the high affinity IL2R, whereas 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.,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 fo 100 tests.	
Comment:	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) 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.	

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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. Flow cytometry analysis (surface staining) of PHAstimulated (3 days) human PBMC with anti-CD25 (MEM-181) APC

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, devided 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

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