

Product datasheet

Anti-CD45RA antibody [MEM-56], prediluted (Allophycocyanin) ab30507

3 References 1 Image

Overview

Product name	Anti-CD45RA antibody [MEM-56], prediluted (Allophycocyanin)
Description	Mouse monoclonal [MEM-56] to CD45RA, prediluted (Allophycocyanin)
Host species	Mouse
Conjugation	Allophycocyanin. Ex: 645nm, Em: 660nm
Specificity	ab30507 recognises CD45RA antigen.
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Thymocytes and T lymphocytes (Human)
General notes	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use.

Properties

Form	Prediluted
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Preservative: 0.097% Sodium azide Constituents: PBS, 0.2% BSA
Purity	IgG fraction
Clonality	Monoclonal
Clone number	MEM-56
Isotype	IgG2b

Applications

Our [Abpromise guarantee](#) covers the use of **ab30507** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
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Flow Cyt

Application notes

Flow Cyt: Use 20µl for 10⁶ cells or 100 ul of whole blood.

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

Target

Function

Protein tyrosine-protein phosphatase required for T-cell activation through the antigen receptor. Acts as a positive regulator of T-cell coactivation upon binding to DPP4. The first PTPase domain has enzymatic activity, while the second one seems to affect the substrate specificity of the first one. Upon T-cell activation, recruits and dephosphorylates SKAP1 and FYN. Dephosphorylates LYN, and thereby modulates LYN activity.

Involvement in disease

Severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-positive/NK-cell-positive
Multiple sclerosis

Sequence similarities

Belongs to the protein-tyrosine phosphatase family. Receptor class 1/6 subfamily. Contains 2 fibronectin type-III domains. Contains 2 tyrosine-protein phosphatase domains.

Domain

The first PTPase domain interacts with SKAP1.

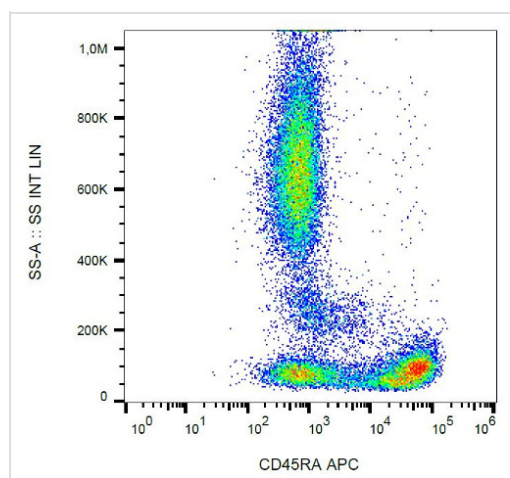
Post-translational modifications

Heavily N- and O-glycosylated.

Cellular localization

Membrane. Membrane raft. Colocalized with DPP4 in membrane rafts.

Images



Surface staining of human peripheral blood with anti-CD45RA (MEM-56) APC.

Flow Cytometry - Anti-CD45RA antibody [MEM-56], prediluted (Allophycocyanin) (ab30507)

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