

Product datasheet

Biotin Anti-CD45RA antibody [MEM-56] ab28109

[1 References](#) [1 Image](#)

Overview

Product name	Biotin Anti-CD45RA antibody [MEM-56]
Description	Biotin Mouse monoclonal [MEM-56] to CD45RA
Host species	Mouse
Conjugation	Biotin
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Tissue, cells or virus corresponding to Human CD45RA. Human thymocytes and T lymphocytes Database link: P08575-8
General notes	<p>The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 8.0 Preservative: 0.097% Sodium azide Constituent: PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	MEM-56
Isotype	IgG2b

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab28109 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
Flow Cyt		Use a concentration of 1 - 5 µg/ml. ab18418 - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.

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.

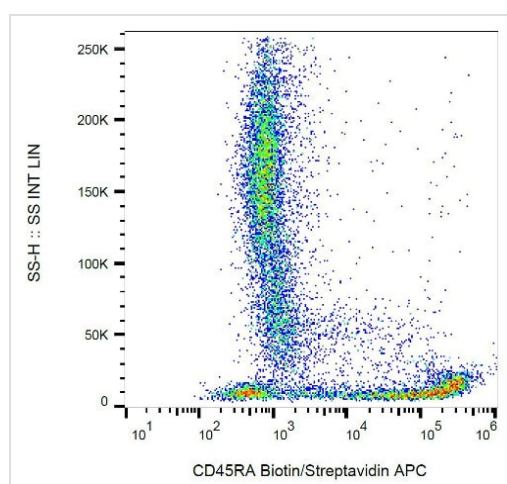
Post-translational modifications

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) biotin / streptavidin-APC.

Flow Cytometry - Biotin Anti-CD45RA antibody
[MEM-56] (ab28109)

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