

Product datasheet

Anti-CD45RA antibody [MEM-56] ab8217

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Overview

Product name	Anti-CD45RA antibody [MEM-56]
Description	Mouse monoclonal [MEM-56] to CD45RA
Host species	Mouse
Tested applications	Suitable for: WB, IHC-P, Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Tissue, cells or virus corresponding to Human CD45RA. Thymocytes and T lymphocytes Database link: P08575-8
Positive control	WB: HUT-78 human cutaneous T cell lymphoma cell lysate.
General notes	<p>This product was changed from ascites to tissue culture supernatant on 24th January 2018. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.</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). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.097% Sodium azide Constituent: PBS
Purity	Protein A purified
Purification notes	Purified from TCS
Clonality	Monoclonal

Clone number MEM-56
Isotype IgG2b

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab8217 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
WB		Use at an assay dependent concentration. Cross reacts with an intracellular 60 kDa protein of unknown identity like other anti-CD45RA MAb.
IHC-P		Use at an assay dependent concentration.
Flow Cyt		Use a concentration of 0.3 - 4 µg/ml.

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

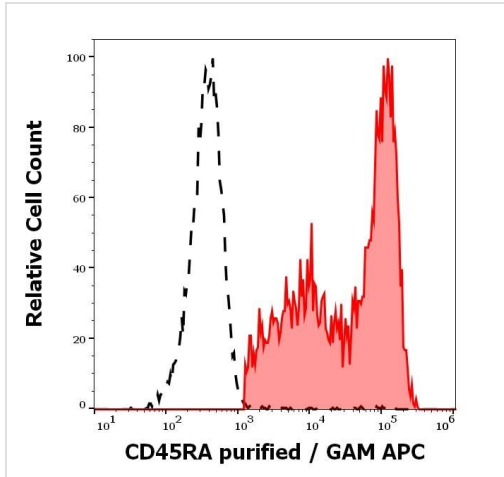
Sequence similarities Belongs to the protein-tyrosine phosphatase family. Receptor class 1/6 subfamily. Contains 2 fibronectin type-III domains. Contains 2 tyrosine-protein phosphatase domains.

Domain The first PTPase domain interacts with SKAP1.

Post-translational modifications Heavily N- and O-glycosylated.

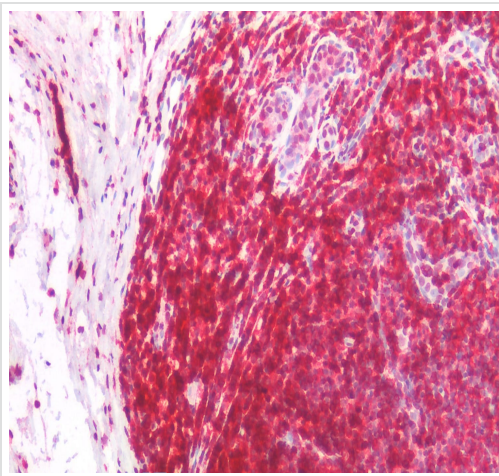
Cellular localization Membrane. Membrane raft. Colocalized with DPP4 in membrane rafts.

Images



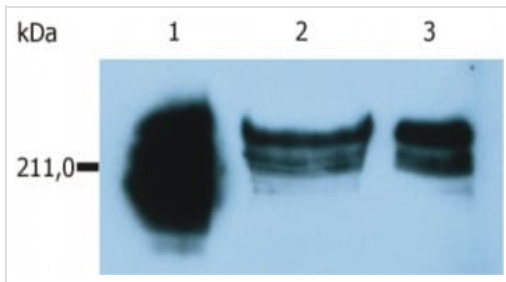
Flow Cytometry - Anti-CD45RA antibody [MEM-56]
(ab8217)

Flow cytometric analysis of Human Peripheral Blood cells labelling CD45RA with ab8217 at 0.3 ug/ml showing separation of human CD45RA positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD45RA antibody [MEM-56] (ab8217)

Immunohistochemical analysis of Paraffin-embedded sections Human Tonsil tissue labelling CD45RA with ab8217 at 5µg/ml.



Western blot - Anti-CD45RA antibody [MEM-56] (ab8217)

Lane 1 : CD45 control antibody

Lanes 2-3 : Anti-CD45RA antibody [MEM-56] (ab8217)

Lane 1 : HUT-78 human cutaneous T cell lymphoma cell line.

Lane 2 : sample of cell lysate prepared under non-reducing conditions

Lane 3 : sample of cell lysate prepared under reducing conditions

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