Product datasheet

Anti-CD45RA antibody [MEM-56] ab8217

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
Species reactivity: Reacts with: Human
Immunogen: Tissue, cells or virus corresponding to Human CD45RA. Thymocytes and T lymphocytes
Database link: P08575-8
General notes: 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.

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.

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

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 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.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>WB</td>
<td></td>
<td>Use at an assay dependent concentration. Cross reacts with an intracellular 60 kDa protein of unknown identity like other anti-CD45RA MAbs.</td>
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<tr>
<td>IHC-P</td>
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<td>Use at an assay dependent concentration.</td>
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**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


Domain: The first PTPase domain interacts with SKAP1.

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


Images
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

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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