

Datasheet for ABIN94136  
**anti-CD45RA antibody**

5 Images

1 Publication



[Go to Product page](#)

## Overview

Quantity:	0.1 mg
Target:	CD45RA
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD45RA antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Western Blotting (WB), Immunoprecipitation (IP), Cytometry by Time of Flight (CyTOF)

## Product Details

Immunogen:	Human thymocytes and T lymphocytes.
Clone:	MEM-56
Isotype:	IgG2b
Specificity:	The antibody MEM-56 reacts with an extracellular epitope of CD45RA, a 205-220 kDa single chain type I glycoprotein, variant of CD45 (CD45RA isoform). CD45RA is expressed on most of B lymphocytes, resting and native T lymphocytes, medullar thymocytes and monocytes.
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

## Target Details

Target:	CD45RA
Alternative Name:	CD45RA ( <a href="#">CD45RA Products</a> )
Background:	CD45RA is a high molecular weight isoform of a receptor-type protein tyrosine phosphatase, CD45 glycoprotein. CD45 is crucial in lymphocyte development and antigen signaling, serving as an important regulator of Src-family kinases, promotes cell survival by modulating integrin-mediated signal transduction pathway and is also involved in DNA fragmentation during apoptosis. CD45 isoforms differ in their extracellular domains, whereas they share identical transmembrane and cytoplasmic domains. These isoforms differ in their ability to translocate into the glycosphingolipid-enriched membrane domains and their expression depends on cell type and physiological state of the cell. CD45RA is expressed e.g. on naïve T cells and normal plasma cells.,PTPRCR, T200RA

## Application Details

Application Notes:	Immunohistochemistry (paraffin sections): No pre-treatment of tissue sections is needed. Flow cytometry: Recommended dilution: 0.3-4 µg/mL.
Restrictions:	For Research Use only

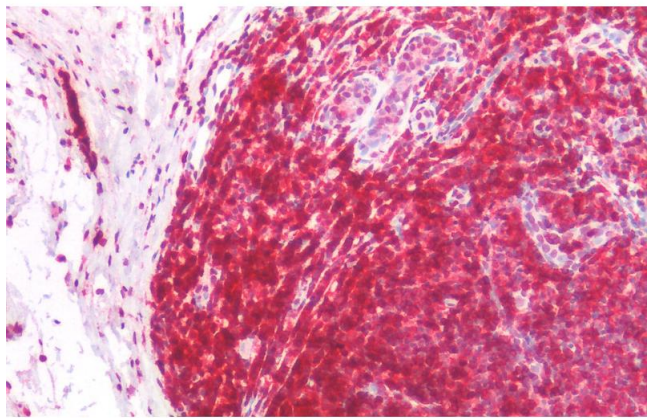
## Handling

Concentration:	1 mg/mL
Buffer:	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.
Handling Advice:	<b>Do not freeze.</b>
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

## Publications

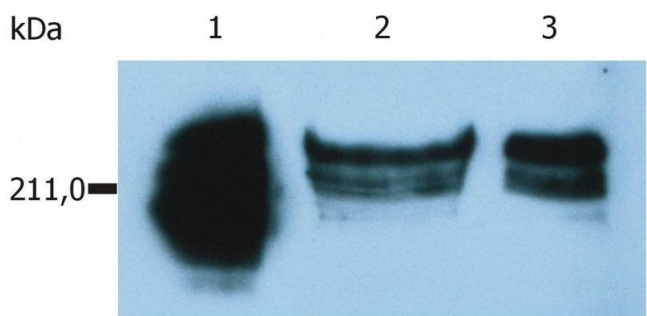
Product cited in:	Bazil, Stefanová, Hilgert, Kristofová, Van?k, Bukovský, Horejsí: "Monoclonal antibodies against human leucocyte antigens. III. Antibodies against CD45R, CD6, CD44 and two newly described broadly expressed glycoproteins MEM-53 and MEM-102." in: <b>Folia biologica</b> , Vol. 35, Issue 5,
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Images



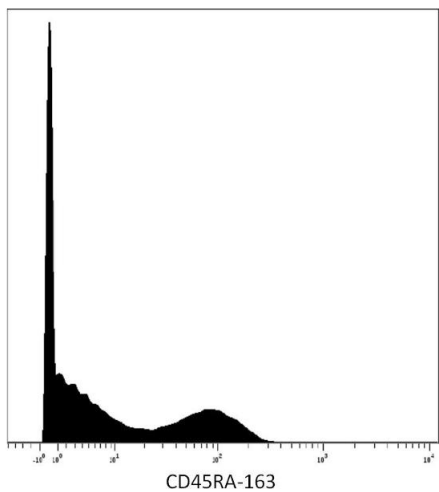
Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Immunohistochemistry staining of human tonsil (paraffin-embedded sections) with anti-CD45RA (MEM-56), 5 µg/mL.



Western Blotting

**Image 2.** Western Blotting analysis of whole cell lysate of HUT-78 human cutaneous T cell lymphoma cell line. Lane 1: immunostaining with anti-human CD45 control antibody. Lane 2: immunostaining with anti-human CD45RA (MEM-56); sample of cell lysate prepared under non-reducing conditions. Lane 3: sample of cell lysate prepared under reducing conditions.



Cytometry by Time of Flight

**Image 3.** Mass cytometry (surface staining) of human peripheral blood with anti-CD45RA (MEM-56) 163Dy. Gated on singlets.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN94136.