



11-387-C025

## Monoclonal Antibody to CD45RB Purified Antibody (0.025 mg)

<b>Clone:</b>	MEM-143
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	<p>The antibody MEM-143 reacts with a protein determinant of CD45RB, a 180-240 kDa single chain type I membrane glycoprotein, variant of CD45 (CD45RB isoform). CD45RB is expressed on a subset of T lymphocytes, B lymphocytes, monocytes, macrophages, granulocytes and dendritic cells.</p> <p>The MEM-143 is therefore not neuraminidase sensitive like most other anti-CD45RB antibodies (including standard antibody MEM-55). The reactivity of the antibody MEM-143 can be blocked by a peptide including amino acids 79-88.</p>
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	Human peripheral blood lymphocytes.
<b>Species Reactivity:</b>	Human
<b>Application:</b>	<p>Flow Cytometry Recommended dilution:4 µg/ml</p> <p>The staining pattern of the MEM-143 show prominent differences from other anti-CD45RB reagents including standard antibody MEM-55, mostly as a result of the recognition of differences in glycosylation.</p> <p>Immunohistochemistry (paraffin sections) Recommended dilution:10 µg/ml Positive control:human tonsil</p>
<b>Purity:</b>	> 95% (by SDS-PAGE)
<b>Purification:</b>	Purified by protein-A affinity chromatography
<b>Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
<b>Storage / Stability:</b>	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	<p>CD45RB is an 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. CD45RB is expressed e.g. in microglia and inflammatory cells.</p>

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**Antibodies****References:**

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- \*Cosenza-Nashat MA, Kim MO, Zhao ML, Suh HS, Lee SC: CD45 isoform expression in microglia and inflammatory cells in HIV-1 encephalitis. *Brain Pathol*. 2006 Oct;16(4):256-65.
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EXBIO Praha | Nad Safinou II 341 | 252 50 Vestec u Prahy | Czech Republic  
Tel: +420 261 090 666 | Fax: +420 261 090 660 | [orders@exbio.cz](mailto:orders@exbio.cz) | [www.exbio.cz](http://www.exbio.cz)