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Datasheet for ABIN93933
anti-MME antibody (PE)

3 Images

1 Publication

Overview

Quantity:	100 tests
Target:	MME
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MME antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	NALM-6 human pre-B cell line
Clone:	MEM-78
Isotype:	IgG1
Specificity:	The antibody MEM-78 reacts with an extracellular epitope CD10 antigen (CALLA - Common acute lymphatic leukemia antigen), a 100 kDa type II integral membrane protein.
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	MME
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Target Details

Alternative Name: [CD10 \(MME Products\)](#)

Target Type: Chemical

Background: Membrane metalloendopeptidase,CD10 (neutral endopeptidase -, NEP, common acute lymphocytic leukemia antigen -, CALLA, membrane metallo-endopeptidase -, MME, enkephalinase) is a 100- kDa cell surface zinc metalloprotease, cleaving peptide bonds on the N-terminus of hydrophobic amino acids and inactivating multiple physiologically active peptides. CD10 is expressed on various normal cell types, including lymphoid precursor cells, germinal center B lymphocytes, and some epithelial cells, and its expression level serves as a marker for diagnostics of many carcinomas. CD10 is also a differentiation antigen for early B-lymphoid progenitors in the B-cell differentiation pathway and has a key role in regulation of growth, differentiation and signal transduction of many cellular systems.,CALLA, Neprilysin, Neutral endopeptidase, Enkephalinase, Atriopeptidase, MME

Gene ID: 4311

UniProt: [P08473](#)

Pathways: [RTK Signaling](#), [Peptide Hormone Metabolism](#), [Regulation of Systemic Arterial Blood Pressure by Hormones](#), [Smooth Muscle Cell Migration](#)

Application Details

Application Notes: Flow cytometry: The reagent is designed for analysis of human blood cells using 20 µL reagent / 100 µL of whole blood or 10⁶ cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.

Comment: The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.

Restrictions: For Research Use only

Handling

Reconstitution: No reconstitution is necessary.

Buffer: Stabilizing 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

Handling

should be handled by trained staff only.

Handling Advice:

Do not freeze.

Avoid prolonged exposure to light.

Storage:

4 °C

Storage Comment:

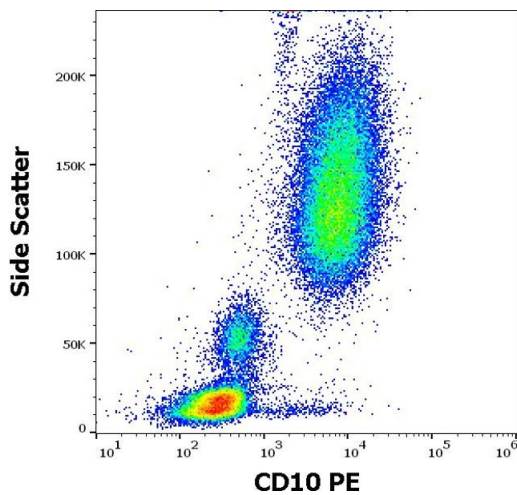
Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in:

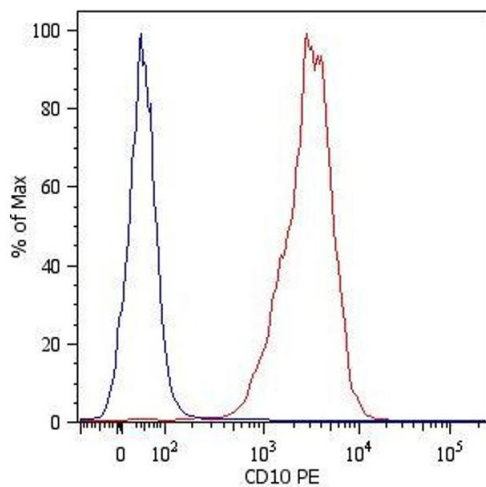
Angelisová, Drbal, Horejsí, Cerný: "Association of CD10/neutral endopeptidase 24.11 with membrane microdomains rich in glycosylphosphatidylinositol-anchored proteins and Lyn kinase." in: **Blood**, Vol. 93, Issue 4, pp. 1437-9, (1999) ([PubMed](#)).

Images



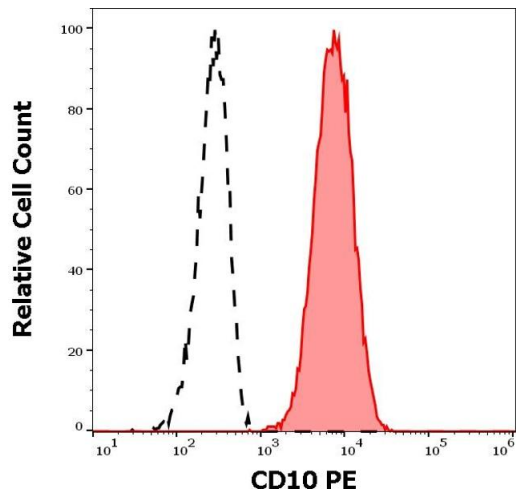
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD10 (MEM-78) PE antibody (20 µL reagent / 100 µL of peripheral whole blood).



Flow Cytometry

Image 2. Surface staining of NALM-6 human pre-B cell leukemia cell line with anti-human CD10 (MEM-78) PE. Total viable cells were used for analysis.



Flow Cytometry

Image 3. Separation of human neutrophil granulocytes (red-filled) from CD10 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD10 (MEM-78) PE antibody (20 μ L reagent / 100 μ L of peripheral whole blood).