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## Datasheet for ABIN192081 anti-MME antibody (APC)

3 Images

1 Publication

### Overview

Quantity:	100 tests
Target:	MME
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MME antibody is conjugated to APC
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 activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

### Target Details

Target:	MME
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## Target Details

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Alternative Name:	CD10 ( <a href="#">MME Products</a> )
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:	<a href="#">P08473</a>
Pathways:	<a href="#">RTK Signaling</a> , <a href="#">Peptide Hormone Metabolism</a> , <a href="#">Regulation of Systemic Arterial Blood Pressure by Hormones</a> , <a href="#">Smooth Muscle Cell Migration</a>

## Application Details

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Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) 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

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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:

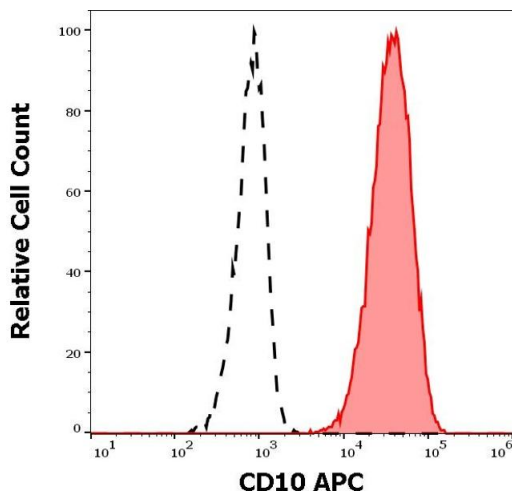
Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

## Publications

Product cited in:

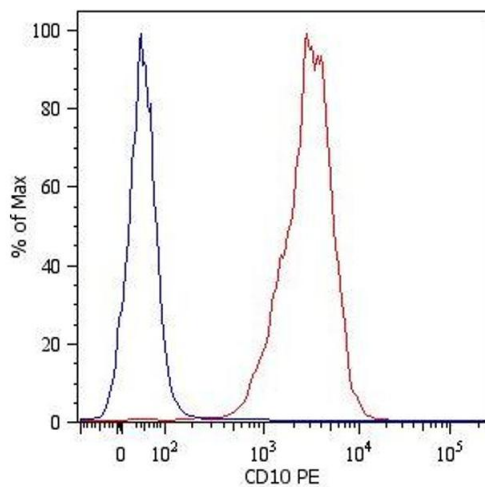
Angelisová, Drbal, Horejsí, Cerný: "Association of CD10/neutral endopeptidase 24.11 with membrane microdomains rich in glycosylphosphatidylinositol-anchored proteins and Lyn kinase." in: **Blood**, Vol. 93, Issue 4, pp. 1437-9, (1999) ([PubMed](#)).

## Images



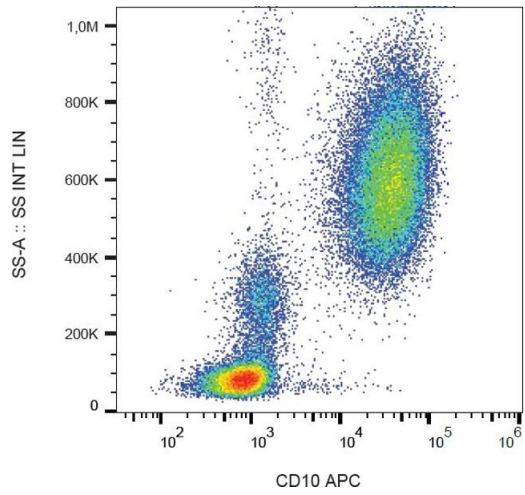
### Flow Cytometry

**Image 1.** Separation of human neutrophil granulocytes (red-filled) from 10 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD10 (MEM-78) APC antibody (10 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.** Flow cytometry analysis (surface staining) of human peripheral blood with anti-human CD10 (MEM-78) APC.