

# MME Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP7329c

#### **Product Information**

**Application** IF, WB, E **Primary Accession** P08473

Other Accession P07861, Q61391
Reactivity Human, Rat, Mouse

Predicted Rat
Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Clone Names RB18820
Calculated MW 85514
Antigen Region 274-302

#### **Additional Information**

**Gene ID** 4311

Other Names Neprilysin, Atriopeptidase, Common acute lymphocytic leukemia antigen,

CALLA, Enkephalinase, Neutral endopeptidase 2411, NEP, Neutral endopeptidase, Skin fibroblast elastase, SFE, CD10, MME, EPN

Target/Specificity This MME antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 274-302 amino acids from the Central

region of human MME.

**Dilution** IF~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.

**Format** Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation

followed by dialysis against PBS.

**Storage** Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions** MME Antibody (Center) is for research use only and not for use in diagnostic

or therapeutic procedures.

#### **Protein Information**

Name MME {ECO:0000303|PubMed:27588448, ECO:0000312|HGNC:HGNC:7154}

**Function** Thermolysin-like specificity, but is almost confined on acting on

polypeptides of up to 30 amino acids (PubMed:<u>15283675</u>, PubMed:<u>6208535</u>, PubMed:<u>6349683</u>, PubMed:<u>8168535</u>). Biologically important in the destruction of opioid peptides such as Met- and Leu-enkephalins by cleavage of a Gly-Phe bond (PubMed:<u>17101991</u>, PubMed:<u>6349683</u>). Catalyzes cleavage of bradykinin, substance P and neurotensin peptides (PubMed:<u>6208535</u>). Able to cleave angiotensin-1, angiotensin-2 and angiotensin 1-9 (PubMed:<u>15283675</u>, PubMed:<u>6349683</u>). Involved in the degradation of atrial natriuretic factor (ANF) and brain natriuretic factor (BNP(1-32)) (PubMed:<u>16254193</u>, PubMed:<u>2531377</u>, PubMed:<u>2972276</u>). Displays UV-inducible elastase activity toward skin preelastic and elastic fibers (PubMed:<u>20876573</u>).

**Cellular Location** 

Cell membrane; Single-pass type II membrane protein

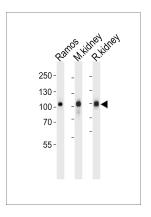
### **Background**

MME is a common acute lymphocytic leukemia antigen that is an important cell surface marker in the diagnosis of human acute lymphocytic leukemia (ALL). This protein is present on leukemic cells of pre-B phenotype, which represent 85% of cases of ALL. This protein is not restricted to leukemic cells, however, and is found on a variety of normal tissues. It is a oprotein that is particularly abundant in kidney, where it is present on the brush border of proximal tubules and on glomerular epithelium. The protein is a neutral endopeptidase that cleaves peptides at the amino side of hydrophobic residues and inactivates several peptide hormones including glucagon, enkephalins, substance P, neurotensin, oxytocin, and bradykinin.

#### References

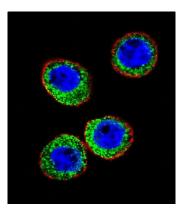
Dakka, N., Bellaoui, H. Pediatr Hematol Oncol 26 (4), 216-231 (2009) Wang, R., Wang, S. J. Neurochem. 108 (4), 1072-1082 (2009) Shipp, M.A. Proc. Natl. Acad. Sci. U.S.A. 88 (23), 10662-10666 (1991) Shipp, M.A. Proc. Natl. Acad. Sci. U.S.A. 86 (1), 297-301 (1989)

## **Images**



Western blot analysis of lysates from Ramos cell line, mouse kidney and rat kidney tissue (from left to right), using Neprilysin Antibody (Center)(Cat. #AP7329c). AP7329c was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35 ug per lane.

Confocal immunofluorescent analysis of MME Antibody (Center)(Cat#AP7329c) with WiDr cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red). DAPI was used to stain the cell nuclear (blue).



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.