10320 Camino Santa Fe, Suite G
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MME Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10192c

Specification

MME Antibody (Center) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P08473
Other Accession	NP_009218.2, NP_000893.2, NP_009219.2, NP_009220.2
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**721-747**

MME Antibody (Center) - 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 721-747 amino acids from the C-terminal region of human MME.

Dilution
WB~~1:1000
IHC-P~~1:50~100

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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.

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

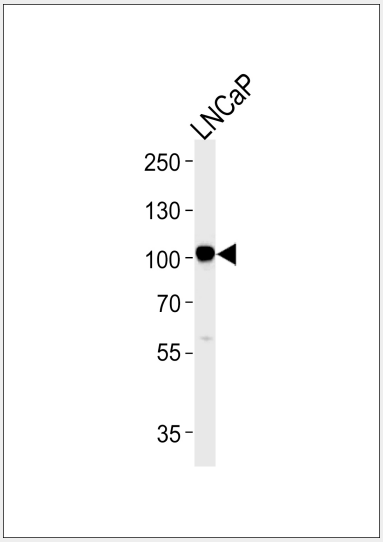
Cellular Location
Cell membrane; Single-pass type II membrane protein

MME Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

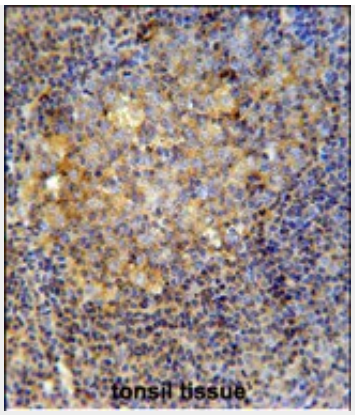
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MME Antibody (Center) - Images



MME Antibody (C-term) (Cat.# AP10192c) western blot analysis in LNCaP cell line lysates (35ug/lane).This demonstrates the MME antibody detected the MME protein (arrow).

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MME Antibody (C-term) (Cat. #AP10192c) immunohistochemistry analysis in formalin fixed and paraffin embedded human tonsil tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the MME Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

MME Antibody (Center) - Background

This gene encodes 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 glycoprotein 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. This gene, which encodes a 100-kD type II transmembrane glycoprotein, exists in a single copy of greater than 45 kb. The 5' untranslated region of this gene is alternatively spliced, resulting in four separate mRNA transcripts. The coding region is not affected by alternative splicing. [provided by RefSeq].

MME Antibody (Center) - References

Wang, S., et al. J. Neurochem. 115(1):47-57(2010)
Ikenaga, N., et al. Gastroenterology 139(3):1041-1051(2010)
Kim, H.S., et al. Histopathology 56(6):708-719(2010)
Toussaint, J., et al. PLoS ONE 5 (8) (2010) :
Cui, L., et al. PLoS ONE 5 (8), E12121 (2010) :