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MME Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP10192c

Specification

MME Antibody (Center) Blocking peptide - Product Information

Primary Accession	P08473
Other Accession	NP_009218.2, NP_000893.2, NP_009219.2, NP_009220.2

MME Antibody (Center) Blocking peptide - 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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MME Antibody (Center) Blocking peptide - 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) Blocking peptide - Protocols

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

- Blocking Peptides

MME Antibody (Center) Blocking peptide - Images

MME Antibody (Center) Blocking peptide - Background

This gene encodes a common acute lymphocytic leukemiaantigen that is an important cell surface marker in the diagnosisof human acute lymphocytic leukemia (ALL). This protein is presenton leukemic cells of pre-B phenotype, which represent 85% of casesof ALL. This protein is not restricted to leukemic cells, however,and is found on a variety of normal tissues. It is a glycoproteinthat is particularly abundant in kidney, where it is present on thebrush border of proximal tubules and on glomerular epithelium. Theprotein is a neutral endopeptidase that cleaves peptides at theamino side of hydrophobic residues and inactivates several peptidehormones including glucagon, enkephalins, substance P, neurotensin,oxytocin, and bradykinin. This gene, which encodes a 100-kD type IItransmembrane glycoprotein, exists in a single copy of greater than45 kb. The 5' untranslated region of this gene is alternativelyspliced, resulting in four separate mRNA transcripts. The codingregion is not affected by alternative splicing. [provided byRefSeq].

MME Antibody (Center) Blocking peptide - 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) :