PEMT Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PEMT, Polyclonal Antibody
Full Product Name	PEMT Antibody, FITC conjugated
Product Gene Name	anti-PEMT antibody
Product Synonym Names	Phosphatidylethanolamine N-methyltransferase; PEMT2; PEMT; PEMPT; PNMT
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: PEMT (MBS7048851) FITC Conjugated Antibody: PEMT (MBS7048853)
Molecular Weight	24,967 Da
OMIM	AF176807 mRNA
3D Structure	ModBase 3D Structure for Q9UBM1
Immunogen	Recombinant human Phosphatidylethanolamine N-methyltransferase protein (2-49AA)
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, PH 7.4
Conjugation	FITC
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-130842
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PEMT antibody	ELISA (EIA)
Related Product Information for anti-PEMT antibody	Catalyzes three sequential methylation reactions of phosphatidylethanolamine (PE) by AdoMet, thereby producing phosphatidylcholine (PC).
Other Notes	Small volumes of anti-PEMT antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PEMT purchase	MBS7048853 is an antibody targeting PEMT. Also known as PEMT Antibody, FITC conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PEMT. It may not necessarily be applicable to this product.

NCBI GI #	388890235
NCBI GeneID	10400
NCBI Accession #	NP_001254480.1
UniProt Primary Accession #	Q9UBM1
UniProt Secondary Accession #	Q6IAQ5; Q86VL3; Q9BW86; Q9UHY6; Q9Y6V9; A8MZ66; B4DY41; D3DXC3
UniProt Related Accession #	Q9UBM1
GenBank Nucleotide #	NM_001267551.1
NCBI Official Full Name	phosphatidylethanolamine N-methyltransferase isoform 4
NCBI Official Synonym Full Names	phosphatidylethanolamine N-methyltransferase
NCBI Official Symbol	PEMT
NCBI Official Synonym Symbols	PLMT; PNMT; PEAMT; PEMPT; PEMT2
UniProt Protein Name	Phosphatidylethanolamine N-methyltransferase
UniProt Synonym Protein Names	PEMT2; Phospholipid methyltransferase
Protein Family	PEMT/PEM2 methyltransferase family protein
UniProt Gene Name	PEMT
UniProt Synonym Gene Names	PEAMT; PEMT; PLMT
UniProt Entry Name	PEMT_HUMAN
NCBI Protein Information	phosphatidylethanolamine N-methyltransferase
NCBI Summary for PEMT	Phosphatidylcholine (PC) is the most abundant mammalian phospholipid. This gene encodes an enzyme which converts phosphatidylethanolamine to phosphatidylcholine by sequential methylation in the liver. Another distinct synthetic pathway in nucleated cells converts intracellular choline to phosphatidylcholine by a three-step process. The protein isoforms encoded by this gene localize to the endoplasmic reticulum and mitochondria-associated membranes. Alternate splicing of this gene results in multiple transcript variants encoding different isoforms. [provided by RefSeq, May 2012]
UniProt Comments for PEMT	Catalyzes the three sequential steps of the methylation pathway of phosphatidylcholine biosynthesis, the SAM-dependent methylation of phosphatidylethanolamine (PE) to phosphatidylmonomethylethanolamine (PMME), PMME to phosphatidyldimethylethanolamine (PDME), and PDME to phosphatidylcholine (PC).
Research Articles on PEMT	**1.** a significant association between the PEMT rs7946 A-allele and a risk of nonalcoholic fatty liver disease, with the effect being more prominent in East-Asians, but not in non-Asians (Meta-Analysis)
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