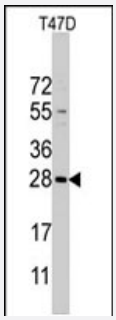
PEMT polyclonal antibody

Catalog # PAB2194 Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of PEMT polyclonal antibody (Cat # PAB2194) in T-47D cell line lysates (35 ug/lane). PEMT (arrow) was detected using the purified polyclonal antibody.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of PEMT.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human PEMT.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein A purification
Recommend Usage	Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

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Gene Info — PEMT

Entrez GeneID	10400
Protein Accession#	NP_009100;Q9UBM1
Gene Name	PEMT
Gene Alias	MGC2483, PEAMT, PEMPT, PEMT2, PNMT
Gene Description	phosphatidylethanolamine N-methyltransferase
Omim ID	602391
Gene Ontology	Hyperlink
Gene Summary	This gene encodes an enzyme which converts phosphatidylethanolamine to phosphatidylcholine b y sequential methylation in the liver. The protein localizes to the endoplasmic reticulum and mitoch ondria-associated membranes. The gene is within the Smith-Magenis syndrome region on chrom osome 17. Alternate splicing of this gene results in three transcript variants encoding two different isoforms. [provided by RefSeq
Other Designations	OTTHUMP00000065536|OTTHUMP00000065537

Publication Reference

- Structure, expression profile and alternative processing of the human phosphatidylethanolamine N-methyltransferase (PEMT) gene.

  Shields DJ, Agellon LB, Vance DE.

  Biochimica et Biophysica Acta 2001 May; 1532(1-2):105.

- Gene expression profiling in the human hypothalamus-pituitary-adrenal axis and full-length cDNA cloning.

  Hu RM, Han ZG, Song HD, Peng YD, Huang QH, Ren SX, Gu YJ, Huang CH, Li YB, Jiang CL, Fu G, Zhang QH, Gu BW, Dai M, Mao YF, Gao GF, Rong R, Ye M, Zhou J, Xu SH, Gu J, Shi JX, Jin WR, Zhang CK, Wu TM, Huang GY, Chen Z, Chen MD, Chen JL.

  PNAS 2000 Aug; 97(17):9543.

- Identification of three novel cDNAs for human phosphatidylethanolamine N-methyltransferase and localization of the human gene on chromosome 17p11.2.

  Walkey CJ, Shields DJ, Vance DE.

  Biochimica et Biophysica Acta 1999 Jan; 1436(3):405.

Pathway

- Glycerophospholipid metabolism
- Metabolic pathways

Disease

- Breast cancer
- Breast Neoplasms
- Cardiovascular Diseases
- Choline Deficiency
- Cleft Lip
- Cleft Palate
- Coronary Artery Disease
- Diabetes Mellitus
- Edema
- Fatty Liver
- Folic Acid Deficiency
- Genetic Predisposition to Disease

- Metabolic Syndrome X
- Obesity
- Schizophrenia
- Tobacco Use Disorder