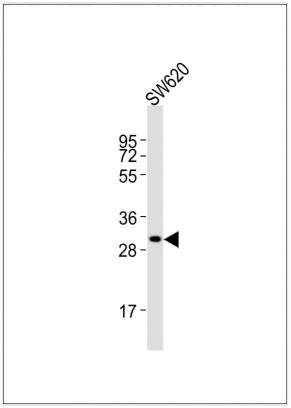
PNMT Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PNMT, Polyclonal Antibody
Full Product Name	PNMT Antibody (Center)
Product Gene Name	anti-PNMT antibody
Product Synonym Names	Phenylethanolamine N-methyltransferase; PNMTase; Noradrenaline N-methyltransferase; PNMT; PENT
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human
Form/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.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.36 (lot specific)
Specificity	This PNMT antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 158-192 amino acids from the Central region of human PNMT.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	PNMT peptide (MBS9230005) is used for blocking the activity of PNMT antibody (MBS9202041)
Molecular Weight	30855
OMIM	171190
3D Structure	ModBase 3D Structure for P11086
Antigen Source	HUMAN
Product Categories/Family for anti-PNMT antibody	Cancer; Cardiovascular; Metabolism; Neuroscience; Signal transduction
Applications Tested/Suitable for anti-PNMT antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-PNMT antibody	WB~~1:2000
Related Product Information for anti-PNMT antibody	MBS9202041 is an antibody targeting PNMT. Also known as PNMT Antibody (Center). Reactive in Human. Host: Rabbit. Converts noradrenaline to adrenaline.
Product References and Citations for anti-PNMT antibody	Kaneda N.,et al.J. Biol. Chem. 263:7672-7677(1988). Sasaoka T.,et al.Neurochem. Int. 15:555-565(1989). Baetge E.E.,et al.Proc. Natl. Acad. Sci. U.S.A. 85:3648-3652(1988). Martin J.L.,et al.Structure 9:977-985(2001). Gee C.L.,et al.Biochemistry 44:16875-16885(2005).
Other Notes	Small volumes of anti-PNMT 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.



Western Blot (WB) of anti-PNMT antibody
Anti-PNMT Antibody (Center)at 1:2000 dilution + SW620 whole cell lysatesLysates/proteins at 20 ug per lane.SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilutionPredicted band size : 31 kDaBlocking/Dilution buffer: 5% NFDM/TBST.

ADDITIONAL DETAILS

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

NCBI GI #	4505921
NCBI GeneID	5409
NCBI Accession #	NP_002677.1
UniProt Primary Accession #	P11086
UniProt Related Accession #	P11086
GenBank Nucleotide #	NM_002686.4
NCBI Official Full Name	phenylethanolamine N-methyltransferase
NCBI Official Synonym Full Names	phenylethanolamine N-methyltransferase
NCBI Official Symbol	PNMT
NCBI Official Synonym Symbols	PENT; PNMTase
UniProt Protein Name	Phenylethanolamine N-methyltransferase
UniProt Synonym Protein Names	Noradrenaline N-methyltransferase
Protein Family	Phenylethanolamine N-methyltransferase
UniProt Gene Name	PNMT
UniProt Synonym Gene Names	PENT; PNMTase
UniProt Entry Name	PNMT_HUMAN
NCBI Protein Information	phenylethanolamine N-methyltransferase
NCBI Summary for PNMT	The product of this gene catalyzes the last step of the catecholamine biosynthesis pathway, which methylates norepinephrine to form epinephrine (adrenaline). The enzyme also has beta-carboline 2N-methyltransferase activity. This gene is thought to play a key step in regulating epinephrine production. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Nov 2012]

UniProt Comments for PNMT	PNMT: Converts noradrenaline to adrenaline. Belongs to the NNMT/PNMT/TEMT family. Protein type: Amino Acid Metabolism - tyrosine; EC 2.1.1.28; Methyltransferase Chromosomal Location of Human Ortholog: 17q12 Cellular Component: cytosol Molecular Function: phenylethanolamine N-methyltransferase activity Biological Process: methylation; catecholamine biosynthetic process; epinephrine biosynthetic process Disease: Hypertension, Essential
Research Articles on PNMT	**1.** initial velocity studies on human PNMT in the absence and presence of product and dead end inhibitors.
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