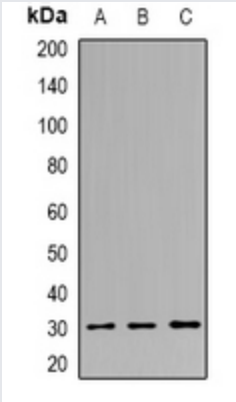
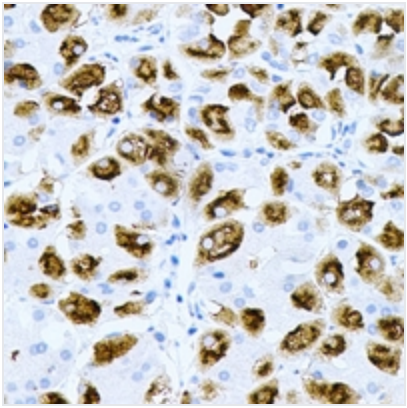
Pnmtase (PNMT) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PNMTase, Polyclonal Antibody
Full Product Name	Anti-PNMTase Antibody
Product Gene Name	anti-PNMT antibody
Product Synonym Names	PENT; Phenylethanolamine N-methyltransferase; PNMTase; Noradrenaline N-methyltransferase
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Specificity	Recognizes endogenous levels of PNMTase protein.
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	30,855 Da
OMIM	171190
3D Structure	ModBase 3D Structure for P11086
Immunogen	Recombinant full length protein of human PNMTase
Applications Tested/Suitable for anti-PNMT antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-PNMT antibody	WB: 1/500 - 1/2000; IHC: 1/50 - 1/200
Related Product Information for anti-PNMT antibody	MBS8245512 is an antibody targeting PNMT. Also known as Anti-PNMTase Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit. Rabbit polyclonal antibody to PNMTase
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
Western blot analysis of PNMTase expression in K562 (A), mouse liver (B), mouse heart (C) whole cell lysates.



Immunohistochemistry (IHC) of anti-PNMT antibody
Immunohistochemical analysis of PNMTase staining in human gastric cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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 Secondary Accession #	P40935; P10937
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; Methyltransferase; EC 2.1.1.28 Chromosomal Location of Human Ortholog: 17q12 Cellular Component: cytosol Molecular Function: phenylethanolamine N-methyltransferase activity Biological Process: catecholamine biosynthetic process; epinephrine biosynthetic process; methylation 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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