

Mouse anti-Human PNMT Monoclonal Antibody | anti-PNMT antibody

PNMT antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48099	Mouse	Human	Immunofluorescence, Immunocytochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

PNMT; Monoclonal Antibody; PNMT antibody; Phenylethanolamine N-methyltransferase; PENT; PNMTase; Noradrenaline-N-methyltransferase; anti-PNMT antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a, k
Clone Number	AT1C11
Purity/Purification	By protein-G affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	282
Applicable Applications for anti-PNMT antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human PNMT (1-282aa) purified from E. coli
Clone Note	Anti-human PNMT mAb, clone AT1C11, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human PNMT protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of PNMT in Hep3B cells. The cell was stained with ATGA0214 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



WB (Western Blot)

The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PNMT antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: 293T cell lysate Lane 2.: PNMT transfected 293T cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-PNMT antibody	Phenylethanolamine N-methyltransferase (PNMT) catalyzes the synthesis of epinephrine and plays an important role in regulating cardiovascular function. Expression of PNMT is regulated by hormonal and neural stimuli because its promoter contains sequences responding to cholinergic and depolarization stimuli. PNMT is the final enzyme in the catecholamine pathway, catalyzing the conversion of norepinephrine to epinephrine using as the cosubstrate and methyl donor, S-adenosylmethionine.
Product Categories/Family for anti-PNMT antibody	Metabolism
References	Wurtman R.J., et al. (1965) Science 150: 1464-1465; Wurtman R.J., et al. (1966) J Biol Chem 241: 2301-2305; Huang C., et al. (2011) IAmerican Journal of Hypertension 24: 1222-1226;

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505921
NCBI GeneID	5409
NCBI Accession #	NP_002677
NCBI GenBank Nucleotide #	NM_002686.4
UniProt Accession #	P11086
Molecular Weight	30,855 Da
NCBI Official Full Name	phenylethanolamine N-methyltransferase
UniProt Protein Name	Phenylethanolamine N-methyltransferase
UniProt Gene Name	PNMT
UniProt Synonym Gene Names	PENT; PNMTase

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.