

Human PNMT antibody

Catalog Number: ATGA0214

PRODUCT INFORMATION

Catalog number

ATGA0214

Clone No.

AT1C11

Product type

Monoclonal Antibody

UnitProt No.

P11086

NCBI Accession No.

NP_002677

Alternative Names

Phenylethanolamine N-methyltransferase, PENT, PNMTase, Noradrenaline-N-methyltransferase, Phenylethanolamine N-methyltransferase

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human PNMT (1-282aa) purified from E. coli

Isotype

IgG2a kappa

Purification Note

By protein-G affinity chromatography

Application

ELISA, WB, ICC/IF

Usage

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

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.

General References

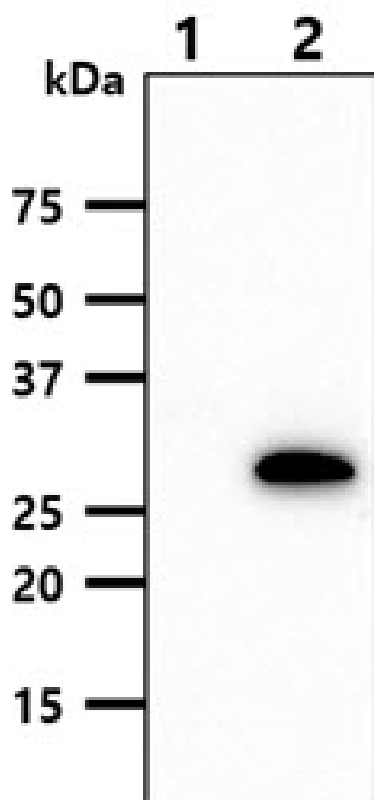
Wurtman R.J., et al. (1965) Science 150: 1464-1465.

Wurtman R.J., et al. (1966) J Biol Chem 241: 2301-2305.

Huang C., et al. (2011) J American Journal of Hypertension 24: 1222-1226.

DATA

Western blot analysis (WB)



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.

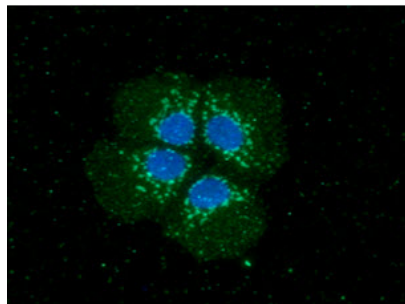
Lane 1.: 293T cell lysate

Lane 2.: PNMT transfected 293T cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

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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).