

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PNMT in direct ELISAs and Western blots. In direct ELISAs, less than 4% cross-reactivity with recombinant human (rh) INMT and rhNNMT is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human PNMT Ser2-Leu282 Accession # P11086
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

PNMT (Phenylethanolamine N-Methyltransferase; also PENT and Noradrenaline N-methyltransferase) is a monomeric, 30-34 kDa cytoplasmic member of the NNMT/PNMT/TEMT family of enzymes. It has limited expression, being found in Leydig, skeletal muscle and B cells, adrenal chromaffin cells, select adrenergic neurons of the vagus nerve, periventricular grey and reticular formation, and specialized adrenalin-containing cells contained within the heart. PNMT converts noradrenalin into adrenalin by transferring a methyl group from AdoMet to the terminal amine group of noradrenalin. Human PNMT is 282 amino acids (aa) in length and contains an active enzyme site between aa 14-279. Full length human PNMT1 shares 81% aa sequence identity with mouse PNMT.

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