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NMT1 Rabbit pAb

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Catalog # AP58470

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	P30419
Predicted	Rat, Pig, Human, Mouse, Rabbit, Chicken, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56806
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NMT1
Epitope Specificity	231-330/496
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm.
SIMILARITY	Belongs to the LDH/MDH superfamily. LDH family.
SUBUNIT	Homotetramer.
Post-translational modifications	ISGylated.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Myristate, a rare 14-carbon saturated fatty acid, is cotranslationally attached by an amide linkage to the N-terminal glycine residue of cellular and viral proteins with diverse functions. N-myristoyltransferase (NMT; EC 2.3.1.97) catalyzes the transfer of myristate from CoA to proteins. N-myristoylation appears to be irreversible and is required for full expression of the biologic activities of several N-myristoylated proteins, including the alpha subunit of the signal-transducing guanine nucleotide-binding protein (G protein) GO (GNAO1; MIM 139311)

Additional Information

Gene ID	4836
Other Names	Glycylpeptide N-tetradecanoyltransferase 1, 2.3.1.97, Myristoyl-CoA:protein N-myristoyltransferase 1, HsNMT1, NMT 1, Type I N-myristoyltransferase, Peptide N-myristoyltransferase 1, Protein-lysine myristoyltransferase NMT1, 2.3.1.-, NMT1 {ECO:0000303|PubMed:9506952, ECO:0000312|HGNC:HGNC:7857}
Target/Specificity	Metabolism of carbohydrates,Dehydrogenase Kits,NADP/NADPH,Carbohydrate metabolism,Energy Metabolism,Cancer,Energy Metabolism

Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	NMT1 {ECO:0000303|PubMed:9506952, ECO:0000312|HGNC:HGNC:7857}
Function	Adds a myristoyl group to the N-terminal glycine residue of certain cellular and viral proteins (PubMed:22865860, PubMed:25255805, PubMed:32686708, PubMed:34999170, PubMed:9353336, PubMed:9506952). Also able to mediate N-terminal lysine myristoylation of proteins: catalyzes myristoylation of ARF6 on both 'Gly-2' and 'Lys-3' (PubMed:32103017, PubMed:32111831). Lysine myristoylation is required to maintain ARF6 on membranes during the GTPase cycle (PubMed:32103017).
Cellular Location	Cytoplasm. Cytoplasm, cytosol. Membrane; Peripheral membrane protein Note=Copurifies with ribosomes.
Tissue Location	Heart, gut, kidney, liver and placenta.

Background

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.