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NMT2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14558b

Product Information

Application	WB, E
Primary Accession	O60551
Other Accession	NP_004799.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34513
Calculated MW	56980
Antigen Region	125-153

Additional Information

Gene ID	9397
Other Names	Glycylpeptide N-tetradecanoyltransferase 2, Myristoyl-CoA:protein N-myristoyltransferase 2, NMT 2, Peptide N-myristoyltransferase 2, Type II N-myristoyltransferase, NMT2
Target/Specificity	This NMT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 125-153 amino acids from the C-terminal region of human NMT2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	NMT2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NMT2 {ECO:0000303|PubMed:9506952, ECO:0000312|HGNC:HGNC:7858}
Function	Adds a myristoyl group to the N-terminal glycine residue of certain cellular and viral proteins (PubMed:25255805, 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). Lysine myristoylation is required to maintain ARF6 on membranes during the GTPase cycle (PubMed:32103017).

Cellular Location Cytoplasm. Membrane; Peripheral membrane protein

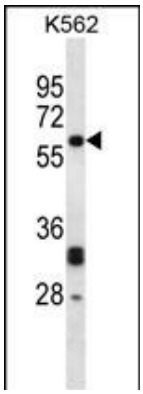
Background

N-myristoyltransferase (NMT) catalyzes the reaction of N-terminal myristoylation of many signaling proteins. It transfers myristic acid from myristoyl coenzyme A to the amino group of a protein's N-terminal glycine residue. Biochemical evidence indicates the presence of several distinct NMTs, varying in apparent molecular weight and /or subcellular distribution. The predicted 498-amino acid of human NMT2 protein shares 77% and 96% sequence identity with human NMT1 and mouse Nmt2 comprise two distinct families of N-myristoyltransferases.

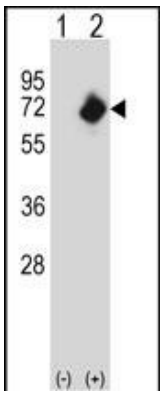
References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)
Seaton, K.E., et al. J. Gen. Virol. 89 (PT 1), 288-296 (2008) :
Quintero-Rivera, F., et al. Am. J. Med. Genet. A 143A (15), 1796-1798 (2007) :

Images



NMT2 Antibody (C-term) (Cat. #AP14558b) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the NMT2 antibody detected the NMT2 protein (arrow).



Western blot analysis of NMT2 (arrow) using rabbit polyclonal NMT2 Antibody (C-term) (Cat. #AP14558b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the NMT2 gene.

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