For Research Use Only

NMT1 Polyclonal antibody

Catalog Number:11546-1-AP Featured Product 12 Publications

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Basic Information

Catalog Number:
11546-1-AP

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG2072

GenBank Accession Number:
BC006569

GeneID (NCBI):
4836

UNIPROT ID:
P30419

Full Name:
N-myristoyltransferase 1

Calculated MW:
496 aa, 57 kDa

Observed MW:
49-68 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:500-1:2000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:50-1:500
IF/ICC: 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : SKOV-3 cells, PC-3 cells, mouse pancreas tissue, HeLa cells, L02 cells, human kidney tissue

IP : HeLa cells,

IHC : mouse kidney tissue, human heart tissue, human kidney tissue

IF/ICC : MCF-7 cells,

Background Information

NMT1 is a N-myristoyltransferase responsible for the transfer of myristate from CoA to an amino-terminal glycine of many eukaryotic proteins, which facilitates the targeting of proteins to membrane surfaces and is essential for viability of the organism. Insertional mutagenesis of the Nmt1 gene in Saccharomyces cerevisiae causes recessive lethality. Humans and mice possess two distinct but structurally similar enzymes, NMT1 and NMT2, ubiquitously expressed in most human and mouse tissues. Western analysis revealed that there are 4 isoforms of NMT1 with apparent molecular masses ranging from 49 to 68 kDa. In cell fractionation studies, the 68-kDa NMT1 isoform and NMT2 were present in both membrane and cytoplasmic fractions, while the smaller NMT1 isoforms were predominantly cytoplasmic.

Notable Publications

Author	Pubmed ID	Journal	Application
Janja Božič	34534264	Brain	WB
Elzbieta Dudek	26603938	Biochem Biophys Res Commun	WB
Lu Deng	30446635	Cell Death Dis	WB,IHC

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
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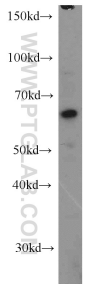
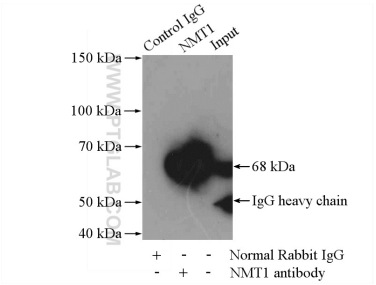
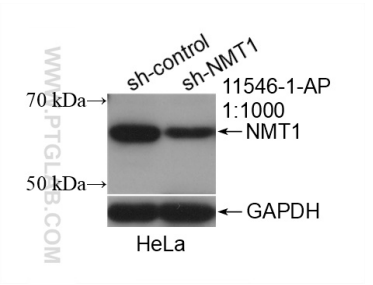
Selected Validation Data



SKOV-3 cells were subjected to SDS PAGE followed by western blot with 11546-1-AP (NMT1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.

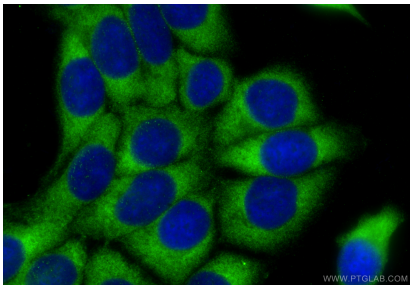


IP result of anti-NMT1 (IP:11546-1-AP, 4ug; Detection:11546-1-AP 1:500) with HeLa cells lysate 2000ug.



WB result of NMT1 antibody (11546-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NMT1 transfected HeLa cells.

Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 11546-1-AP (NMT1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using NMT1 antibody (11546-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).