

For Research Use Only

NMT1 Monoclonal antibody

Catalog Number: 67984-1-Ig

Featured Product

1 Publications



Basic Information

Catalog Number:

67984-1-Ig

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG20541

GenBank Accession Number:

BC006569

GeneID (NCBI):

4836

UNIPROT ID:

P30419

Full Name:

N-myristoyltransferase 1

Calculated MW:

496 aa, 57 kDa

Observed MW:

50-60 kDa

Purification Method:

Protein G purification

CloneNo.:

2D9B9

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:500-1:2000

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB

Species Specificity:

Human, mouse, rat

Cited Species:

human

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 : LNCaP cells, HeLa cells, L02 cells, PC-3 cells, SKOV-3 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells

IHC : human breast cancer tissue, human liver cancer tissue

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
Gabriel I Guajardo-Contreras	39439384	J Cell Sci	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

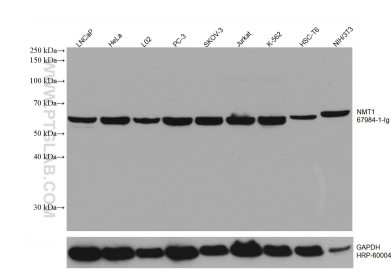
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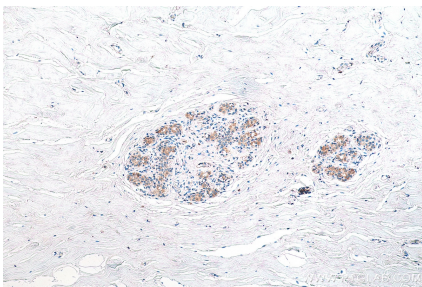
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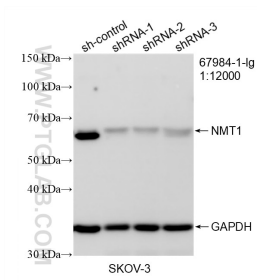
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67984-1-Ig (NMT1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67984-1-Ig (NMT1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of NMT1 antibody (67984-1-Ig; 1:12000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NMT1 transfected SKOV-3 cells.