

For Research Use Only

# NMT1 Monoclonal antibody

Catalog Number: 67984-1-Ig **Featured Product**



## Basic Information

|  |   |  |
|--|---|--|
| <b>Catalog Number:</b><br>67984-1-Ig                           | <b>GenBank Accession Number:</b><br>BC006569  | <b>Purification Method:</b><br>Protein G purification                  |
| <b>Size:</b><br>150ul , Concentration: 1000 µg/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>4836                 | <b>CloneNo.:</b><br>2D9B9  |
| <b>Source:</b><br>Mouse  | <b>Full Name:</b><br>N-myristoyltransferase 1 | <b>Recommended Dilutions:</b><br>WB 1:5000-1:50000<br>IHC 1:500-1:2000 |
| <b>Isotype:</b><br>IgG1  | <b>Calculated MW:</b><br>496 aa, 57 kDa       |  |
| <b>Immunogen Catalog Number:</b><br>AG20541                    | <b>Observed MW:</b><br>50-60 kDa              |  |

## Applications

**Tested Applications:**  
IHC, WB, ELISA

**Species Specificity:**  
Human, mouse, rat

**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.

## 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.

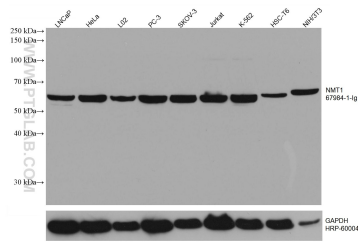
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

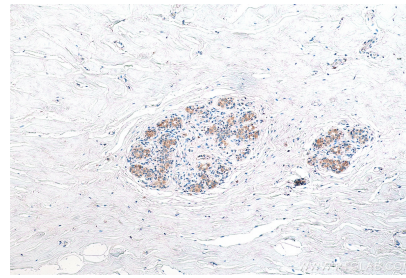
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
W: ptglab.com

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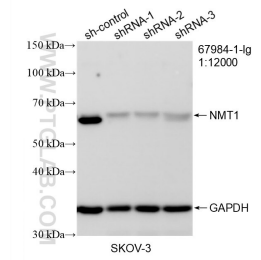
## Selected Validation Data



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.