

# Human NMT1 antibody

Catalog Number: ATGA0501

## PRODUCT INFORMATION

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**Catalog number**

ATGA0501

**Clone No.**

AT2C8

**Product type**

Monoclonal Antibody

**UnitProt No.**

P30419

**NCBI Accession No.**

NP\_066565

**Alternative Names**

Glycylpeptide N-tetradecanoyltransferase 1, Glycylpeptide N-tetradecanoyltransferase 1, NMT, Myristoyl-CoA:protein N-myristoyltransferase 1

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human NMT1 (1-496aa) purified from E. coli

**Isotype**

IgG2a kappa

**Purification Note**

By protein-A affinity chromatography

**Application**

ELISA, WB, ICC/IF

**Usage**

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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## Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

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 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. Recombinant human NMT1 protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

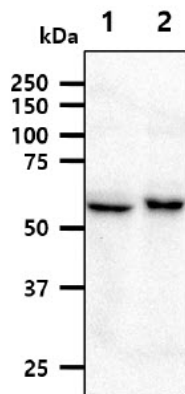
### General References

Glover C.J. et al. (1997) *J. Biol. Chem.* 272:28680-28689.

Van Damme P. et al. (2012) *Proc. Natl. Acad. Sci. U.S.A.* 109:12449-12454.

## DATA

### Western blot analysis (WB)

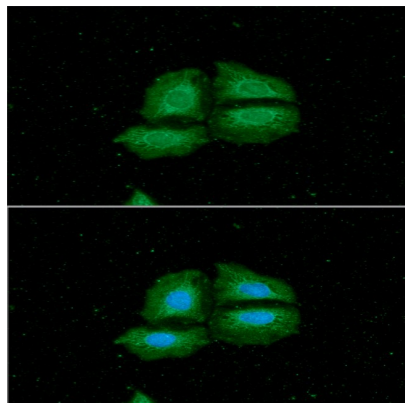


The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NMT1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: HepG2 cell lysate

Lane 2.: 293T cell lysate

### Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of NMT1 in HeLa cells. The cell was stained with ATGA0501 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).