

**N6AMT1 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP18103a**

### Specification

#### N6AMT1 Antibody (N-term) - Product Information

Application	WB, FC,E
Primary Accession	<a href="#">Q9Y5N5</a>
Other Accession	<a href="#">NP_037372.2</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	1-30

#### N6AMT1 Antibody (N-term) - Additional Information

##### Gene ID 29104

##### Other Names

HemK methyltransferase family member 2, 211-, MHsaHemK2P, N(6)-adenine-specific DNA methyltransferase 1, N6AMT1, C21orf127, HEMK2

##### Target/Specificity

This N6AMT1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human N6AMT1.

##### Dilution

WB~~1:2000

FC~~1:25

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

N6AMT1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

#### N6AMT1 Antibody (N-term) - Protein Information

Name HEMK2 {ECO:0000303|PubMed:18539146, ECO:0000312|HGNC:HGNC:16021}

**Function** Methyltransferase that can methylate proteins and, to a lower extent, arsenic (PubMed:[18539146](#), PubMed:[21193388](#), PubMed:[30017583](#), PubMed:[31061526](#), PubMed:[31636962](#)). Catalytic subunit of a heterodimer with TRMT112, which monomethylates 'Lys-12' of histone H4 (H4K12me1), a modification present at the promoters of numerous genes encoding cell cycle regulators (PubMed:[31061526](#)). Catalytic subunit of a heterodimer with TRMT112, which catalyzes N5-methylation of Glu residue of proteins with a Gly-Gln-Xaa-Xaa-Xaa-Arg motif (PubMed:[18539146](#), PubMed:[31632689](#), PubMed:[31636962](#)). Methylates ETF1 on 'Gln-185'; ETF1 needs to be complexed to ERF3 in its GTP-bound form to be efficiently methylated (PubMed:[18539146](#), PubMed:[20606008](#), PubMed:[31061526](#), PubMed:[31636962](#)). May also play a role in the modulation of arsenic-induced toxicity by mediating the conversion of monomethylarsonous acid (3+) into the less toxic dimethylarsonic acid (PubMed:[21193388](#), PubMed:[25997655](#)). It however only plays a limited role in arsenic metabolism compared with AS3MT (PubMed:[25997655](#)).

#### Cellular Location

Nucleus {ECO:0000250|UniProtKB:Q6SKR2}.

#### Tissue Location

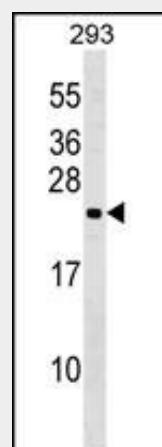
Widely expressed, with highest expression in parathyroid and pituitary glands, followed by adrenal gland and kidney, and lowest expression in leukocytes and mammary gland

#### N6AMT1 Antibody (N-term) - Protocols

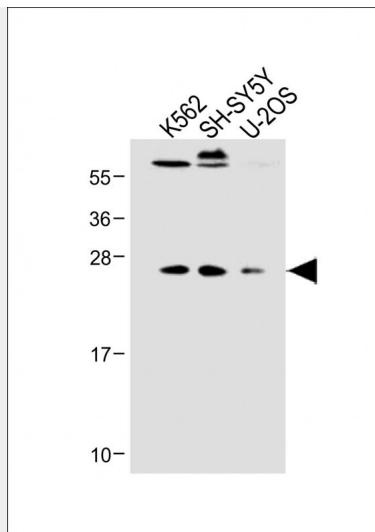
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

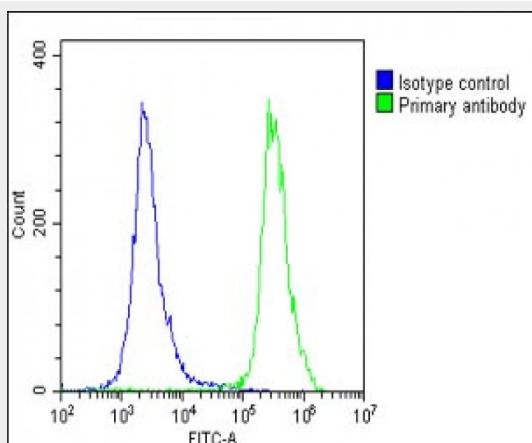
#### N6AMT1 Antibody (N-term) - Images



N6AMT1 Antibody (N-term) (Cat. #AP18103a) western blot analysis in 293 cell line lysates (35ug/lane). This demonstrates the N6AMT1 antibody detected the N6AMT1 protein (arrow).



All lanes : Anti-N6AMT1 Antibody (N-term) at 1:2000 dilution Lane 1: K562 whole cell lysate Lane 2: SH-SY5Y whole cell lysate Lane 3: U-2OS whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 23 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Overlay histogram showing U-2 OS cells stained with AP18103a(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP18103a, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(1583138) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >10, 000 events was performed.

#### N6AMT1 Antibody (N-term) - Background

The protein encoded by this gene belongs to the methyltransferase superfamily. Alternative splicing occurs at this locus and two transcript variants encoding distinct isoforms have been identified.

#### N6AMT1 Antibody (N-term) - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :  
 Figaro, S., et al. FEBS Lett. 582(16):2352-2356(2008)

Seshadri, S., et al. BMC Med. Genet. 8 SUPPL 1, S15 (2007) :  
Hwang, S.J., et al. BMC Med. Genet. 8 SUPPL 1, S10 (2007) :