

# NME1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AW5094

## Product Information

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Application	WB
Primary Accession	<a href="#">P15531</a>
Other Accession	<a href="#">P19804</a> , <a href="#">NP_000260.1</a> , <a href="#">NP_937818.1</a>
Reactivity	Mouse, Human
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	17149
Isotype	Rabbit IgG
Antigen Source	HUMAN

## Additional Information

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Gene ID	4830
Antigen Region	103-131
Other Names	NME1; NDPKA; NM23; Nucleoside diphosphate kinase A; Granzyme A-activated DNase; Metastasis inhibition factor nm23; Tumor metastatic process-associated protein; nm23-H1
Dilution	WB~~1:1000
Target/Specificity	This NME1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 103-131 amino acids from the C-terminal region of human NME1.
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	NME1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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Name	NME1
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<b>Synonyms</b>	NDPKA, NM23
<b>Function</b>	Major role in the synthesis of nucleoside triphosphates other than ATP. The ATP gamma phosphate is transferred to the NDP beta phosphate via a ping-pong mechanism, using a phosphorylated active-site intermediate. Possesses nucleoside-diphosphate kinase, serine/threonine-specific protein kinase, geranyl and farnesyl pyrophosphate kinase, histidine protein kinase and 3'-5' exonuclease activities. Involved in cell proliferation, differentiation and development, signal transduction, G protein-coupled receptor endocytosis, and gene expression. Required for neural development including neural patterning and cell fate determination. During GZMA- mediated cell death, works in concert with TREX1. NME1 nicks one strand of DNA and TREX1 removes bases from the free 3' end to enhance DNA damage and prevent DNA end reannealing and rapid repair.
<b>Cellular Location</b>	Cytoplasm. Nucleus. Note=Cell-cycle dependent nuclear localization which can be induced by interaction with Epstein-barr viral proteins or by degradation of the SET complex by GzmA
<b>Tissue Location</b>	Isoform 1 is expressed in heart, brain, placenta, lung, liver, skeletal muscle, pancreas, spleen and thymus. Expressed in lung carcinoma cell lines but not in normal lung tissues. Isoform 2 is ubiquitously expressed and its expression is also related to tumor differentiation.

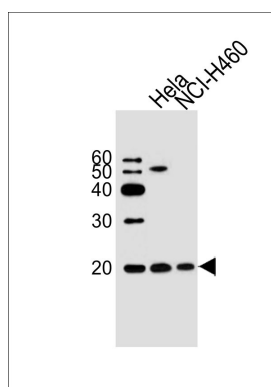
## Background

This gene (NME1) was identified because of its reduced mRNA transcript levels in highly metastatic cells. Nucleoside diphosphate kinase (NDK) exists as a hexamer composed of 'A' (encoded by this gene) and 'B' (encoded by NME2) isoforms. Mutations in this gene have been identified in aggressive neuroblastomas. Two transcript variants encoding different isoforms have been found for this gene. Co-transcription of this gene and the neighboring downstream gene (NME2) generates naturally-occurring transcripts (NME1-NME2), which encodes a fusion protein comprised of sequence sharing identity with each individual gene product.

## References

Boissan, M., et al. Cancer Res. 70(19):7710-7722(2010)  
Wang, P.H., et al. Gynecol. Oncol. 119(1):70-75(2010)  
Conery, A.R., et al. Proc. Natl. Acad. Sci. U.S.A. 107(35):15461-15466(2010)  
Wang, Z., et al. Med. Sci. Monit. 16 (8), CR357-CR364 (2010) :  
Li, Y., et al. Cancer Res. 70(14):5695-5705(2010)

## Images



Western blot analysis of lysates from HeLa, NCI-H460 cell line (from left to right), using NME1 Antibody (C-term)(Cat. #AW5094). AW5094 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.