NM23A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NM23A, Polyclonal Antibody
Full Product Name	NM23A Rabbit pAb
Product Gene Name	anti-NM23A antibody
Product Synonym Names	NB; AWD; NBS; GAAD; NM23; NDPKA; NDPK-A; NM23-H1; NME1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% Sodium Azide and 50% Glycerol.
Purity/Purification	Affinity Chromatography
Preparation and Storage	Store at 4 degree C short term. Store at -20 degree C long term. Avoid freeze/thaw cycle.
Molecular Weight	17kDa
OMIM	156490
3D Structure	ModBase 3D Structure for P15531
Immunogen	A synthesized peptide derived from human NM23A
Cellular Localization	Cytoplasm, Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-NM23A antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FC/FACS)
Application Notes for anti-NM23A antibody	WB: 1:500-1:2000 IHC: 1:50-1:200 ICC/IF: 1:50-1:200 FC/FACS: 1:50
Related Product Information for anti-NM23A antibody	Major role in the synthesis of nucleoside triphosphates other than ATP. Possesses nucleoside-diphosphate kinase, serine/threonine-specific protein kinase, geranyl and farnesyl pyrophosphate kinase, histidine protein kinase and 3'-5' exonuclease activities.
Other Notes	Small volumes of anti-NM23A antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NM23A purchase	MBS8543810 is an antibody targeting NM23A. Also known as NM23A Rabbit pAb. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NM23A. It may not necessarily be applicable to this product.

NCBI GI #	4557797
NCBI GeneID	4830

NCBI Accession #	NP_000260.1
UniProt Primary Accession #	P15531
UniProt Related Accession #	P15531
GenBank Nucleotide #	NP_000260.1
NCBI Official Full Name	nucleoside diphosphate kinase A isoform b
NCBI Official Synonym Full Names	NME/NM23 nucleoside diphosphate kinase 1
NCBI Official Symbol	NME1
NCBI Official Synonym Symbols	NB; AWD; NBS; GAAD; NDKA; NM23; NDPKA; NDPK-A; NM23-H1
UniProt Protein Name	Nucleoside diphosphate kinase A
UniProt Synonym Protein Names	Granzyme A-activated DNase; GAAD; Metastasis inhibition factor nm23; NM23-H1; Tumor metastatic process-associated protein
UniProt Gene Name	NME1
UniProt Synonym Gene Names	NDPKA; NM23; NDK A; NDP kinase A; GAAD
UniProt Entry Name	NDKA_HUMAN
NCBI Protein Information	nucleoside diphosphate kinase A
NCBI Summary for NM23A	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. [provided by RefSeq, Jul 2008]
UniProt Comments for NM23A	NME1: an enzyme with multiple activities including histidine protein kinase, nucleoside-diphosphate kinase, serine/threonine-specific protein kinase, geranyl and farnesyl pyrophosphate kinase and 3'-5' exonuclease activities. Plays a 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. Involved in cell proliferation, differentiation and development, G protein-coupled receptor endocytosis, cytotoxic T cell and NK cell-mediated cell death, and gene expression. Required for neural development including neural patterning and cell fate determination. During granzyme A (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. Three alternatively spliced human proteins have been reported. Protein type: Nucleotide Metabolism - purine; Kinase, nucleoside diphosphate; Kinase, other; EC 2.7.4.6; Tumor suppressor; Protein kinase, histidine; Nucleotide Metabolism - pyrimidine; Other group; NDK family Chromosomal Location of Human Ortholog: 17q21.3 Cellular Component: mitochondrion; membrane; cytoplasm; nucleus; cytosol Molecular Function: identical protein binding; protein binding; GTP binding; deoxyribonuclease activity; nucleoside diphosphate kinase activity; magnesium ion binding; ATP binding; ribosomal small subunit binding Biological Process: GTP biosynthetic process; nervous system development; nucleobase, nucleoside and nucleotide interconversion; nucleobase, nucleoside and nucleotide metabolic process; UTP biosynthetic process; nucleoside diphosphate phosphorylation; endocytosis; DNA catabolic process; regulation of apoptosis; negative regulation of cell proliferation; CTP biosynthetic process; pyrimidine nucleotide metabolic process; nucleoside triphosphate biosynthetic process; cell differentiation; positive regulation of epithelial cell proliferation; positive regulation of DNA binding; purine nucleotide metabolic process Disease: Neuroblastoma, Susceptibility To
Research Articles on NM23A	**1.** the potential roles that PARK7 and NDKA play in the management of acute stroke disease

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