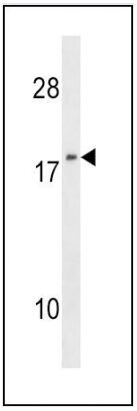
NM23 Antibody – Rabbit Polyclonal

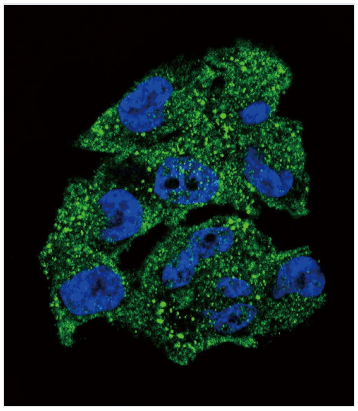
PRODUCT OVERVIEW

Product Name	Nm23, Polyclonal Antibody
Full Product Name	Nm23, NT (Nonmetastatic Protein 23, AWD, Granzyme A Activated DNase, GZMA Activated DNase, GAAD, Metastasis Inhibition Factor nm23, NB, NBS, NM23-H1, NM23-H1B, Non-metastatic Cells 1 Protein, NME1, Nucleoside Diphosphate Kinase A, NDP Kinase A, NDK A, NDK
Product Gene Name	anti-Nm23 antibody
Product Synonym Names	Non-metastatic Cells 1; Protein (NM23A) Expressed in; EC=2.7.4.6
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human NME1.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	17,149 Da
OMIM	156490
3D Structure	ModBase 3D Structure for P15531
Immunogen	Synthetic peptide selected from the N-terminal region of human NME1 (KLH).
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-Nm23 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-Nm23 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-Nm23 antibody	IHC: 1:50-1:100 FLISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-Nm23 antibody	MBS6490135 is an antibody targeting Nm23. Also known as Nm23, NT (Nonmetastatic Protein 23, AWD, Granzyme A Activated DNase, GZMA Activated DNase, GAAD, Metastasis Inhibition Factor nm23, NB, NBS, NM23-H1, NM23-H1B, Non-metastatic Cells 1 Protein, NME1, Nucleoside Diphosphate Kinase A, NDP Kinase A, NDK A, NDK. Reactive in Human. Host: Rabbit.

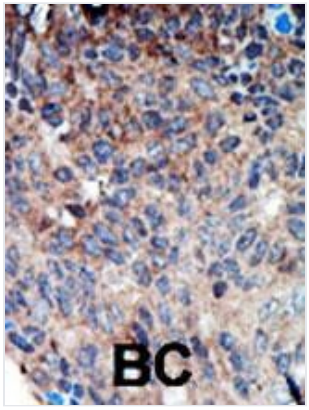
Product References and Citations for anti-Nm23 antibody	1. Munier, A., et al., Exp. Cell Res. 289(2):295-306 (2003). 2. Chen, Y., et al., J. Mol. Biol. 332(4):915-926 (2003). 3. Kim, Y.I., et al., Biochem. Biophys. Res. Commun. 307(2):281-289 (2003). 4. Wang, P.H., et al., Gynecol. Obstet. Invest. 55(1):14-19 (2003). 5. Ni, X., et al., J. Hum. Genet. 48(2):96-100 (2003).
Other Notes	Small volumes of anti-Nm23 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.



Western Blot (WB) of anti-Nm23 antibody
NME1 Antibody (F40) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the NME1 antibody detected the NME1 protein (arrow).



Immunofluorescence (IF) of anti-Nm23 antibody
Confocal immunofluorescent analysis of NM23 (NME1) Antibody (N-term) with A375 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green).DAPI was used to stain the cell nuclear (blue).



Immunohistochemistry (IHC) of anti-Nm23 antibody
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Nm23. 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 Secondary Accession #	Q6FGK3; Q86XQ2; Q9UDJ6
UniProt Related Accession #	P15531
GenBank Nucleotide #	NM_000269.2
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
Protein Family	Nucleoside diphosphate kinase
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; NDP kinase A; granzyme A-activated DNase; metastasis inhibition factor nm23; tumor metastatic process-associated protein; non-metastatic cells 1, protein (NM23A) expressed in
NCBI Summary for Nm23	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 Nm23	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 Nm23	**1.** findings show NDPKs (NM23-H1/H2/H4) interact with and provide GTP to dynamins, allowing these motor proteins to work with high thermodynamic efficiency for membrane remodeling

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