NME1 Immunizing Blocking Peptide

PRODUCT OVERVIEW

Product Name	NME1, Blocking Peptide
Full Product Name	NME1 Immunizing Peptide
Product Gene Name	NME1 blocking peptide
Product Synonym Names	NME1; AWD; GAAD; NB; NBS; NDPK-A; NDPKA; NM23; NM23-H1; non-metastatic cells 1, protein (NM23A) expressed in; NDP kinase A; OTTHUMP00000174772
Sequence	DYTSCAQNWI YE
Species Reactivity	Human
Form/Format	100ug of dried peptide
Preparation and Storage	Shipped at ambient temperature, store at -20 degree C
Antibody/Peptide Pairs	NME1 peptide (MBS428309) is used for blocking the activity of NME1 antibody (MBS423278)
Molecular Weight	30,137 Da
OMIM	156490
ISO Certification	Manufactured in an ISO 9001:2008 Certified Laboratory.
Related Product Information for NME1 blocking peptide	MBS428309 is a blocking peptide targeting NME1. Also known as NME1 Immunizing Peptide. Reactive in Human.
Other Notes	Small volumes of NME1 blocking peptide 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NME1. It may not necessarily be applicable to this product.

NCBI GI #	38045913
NCBI GeneID	4830
NCBI Accession #	NP_937818.1
NCBI Related Accession #	NP_000260.1
UniProt Secondary Accession #	Q6FGK3; Q86XQ2; Q9UDJ6
UniProt Related Accession #	P15531
GenBank Nucleotide #	NM_198175.1
NCBI Official Full Name	nucleoside diphosphate kinase A isoform a
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
NCBI Summary for NME1	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 NME1	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: EC 2.7.4.6; Protein kinase, histidine; Nucleotide Metabolism - purine; Kinase, other; Nucleotide Metabolism - pyrimidine; Tumor suppressor; Kinase, nucleoside diphosphate; Other group; NDK family Chromosomal Location of Human Ortholog: 17q21.3 Cellular Component: centrosome; cytoplasm; cytosol; intermediate filament; membrane; mitochondrial outer membrane; myelin sheath; nucleus; perinuclear region of cytoplasm Molecular Function: ATP binding; deoxyribonuclease activity; gamma-tubulin binding; GTP binding; identical protein binding; intermediate filament binding; magnesium ion binding; nucleoside diphosphate kinase activity; protein binding; protein kinase binding; ribosomal small subunit binding; single-stranded DNA binding Biological Process: CTP biosynthetic process; DNA metabolic process; endocytosis; GTP biosynthetic process; hippocampus development; lactation; negative regulation of cell proliferation; negative regulation of myeloid leukocyte differentiation; nucleobase, nucleoside and nucleotide interconversion; nucleoside diphosphate phosphorylation; nucleoside triphosphate biosynthetic process; positive regulation of DNA binding; positive regulation of epithelial cell proliferation; purine nucleotide metabolic process; pyrimidine nucleotide metabolic process; regulation of apoptosis; response to amine stimulus; response to cAMP; response to testosterone stimulus; UTP biosynthetic process Disease: Neuroblastoma, Susceptibility To
Research Articles on NME1	**1.** Fibronectin is an important effector of the motility-suppressing function of NME1 in melanoma cells.
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