



NME1 peptide (DAG-P1821)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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]
Specificity	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 t
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the NDK family.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	NME1 NME/NM23 nucleoside diphosphate kinase 1 [Homo sapiens (human)]
Official Symbol	NME1

Synonyms	NME1; NME/NM23 nucleoside diphosphate kinase 1; NB; AWD; NBS; GAAD; NDKA; NM23; NDPKA; NDPK-A; NM23-H1; 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;
Entrez Gene ID	4830
mRNA Refseq	NM_000269.2
Protein Refseq	NP_000260.1
UniProt ID	P15531
Chromosome Location	17q21.3
Pathway	Adenine ribonucleotide biosynthesis, IMP => ADP,ATP, organism-specific biosystem; Adenine ribonucleotide biosynthesis, IMP => ADP,ATP, conserved biosystem; Arf6 downstream pathway, organism-specific biosystem; Arf6 trafficking events, organism-specific biosystem; CMP phosphorylation, organism-specific biosystem; CMP phosphorylation, conserved biosystem; E-cadherin signaling in the nascent adherens junction, organism-specific biosystem; Guanine ribonucleotide biosynthesis IMP => GDP,GTP, organism
Function	ATP binding; GTP binding; RNA polymerase II regulatory region sequence-specific DNA binding; deoxyribonuclease activity; gamma-tubulin binding; identical protein binding; intermediate filament binding; magnesium ion binding; nucleoside diphosphate kinase