NME2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NME2, Polyclonal Antibody
Full Product Name	NME2, NT (Nucleoside Diphosphate Kinase B, NDK B, NDP Kinase B, nm23-H2, C-myc Purine-binding Transcription Factor PUF, NM23B) (MaxLight 650)
Product Gene Name	anti-NME2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human NME2. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	17,298 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (49230897..49249105). Location: 17q21.3
OMIM	156491
3D Structure	ModBase 3D Structure for P22392
Immunogen	Synthetic peptide selected from the N-terminal region of human NME2 (KLH).
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-NME2 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-NME2 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-NME2 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-NME2 antibody	MBS6490768 is an antibody targeting NME2. Also known as NME2, NT (Nucleoside Diphosphate Kinase B, NDK B, NDP Kinase B, nm23-H2, C-myc Purine-binding Transcription Factor PUF, NM23B) (MaxLight 650). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-NME2 antibody	1. Munier, A., et al., Exp. Cell Res. 289(2):295-306 (2003). 2. Kim, S.H., et al., Biochem. Biophys. Res. Commun. 296(4):970-975 (2002). 3. Okabe-Kado, J., et al., Leuk. Res. 26(6):569-576 (2002). 4. Godfried, M.B., et al., Oncogene 21(13):2097-2101 (2002). 5. Postel, E.H., et al., Biochemistry 41(20):6330-6337 (2002).

Other Notes	Small volumes of anti-NME2 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NME2. It may not necessarily be applicable to this product.

NCBI GI #	66392203
NCBI GeneID	654364
NCBI Accession #	NP_001018146.1
UniProt Primary Accession #	P22392
UniProt Secondary Accession #	Q1WM23; Q6LCT6; A8MWA3
GenBank Nucleotide #	NM_001018136.2
NCBI Official Full Name	NME1-NME2 protein
NCBI Official Synonym Full Names	NME1-NME2 readthrough
NCBI Official Symbol	NME1-NME2
NCBI Official Synonym Symbols	NMELV; NM23-LV
UniProt Protein Name	Nucleoside diphosphate kinase B
UniProt Synonym Protein Names	C-myc purine-binding transcription factor PUF; Histidine protein kinase NDKB (EC:2.7.13.3); nm23-H2
UniProt Gene Name	NME2
UniProt Synonym Gene Names	NM23B; NDK B; NDP kinase B
UniProt Entry Name	NDKB_HUMAN
NCBI Protein Information	NME1-NME2 protein; NME1-NME2 readthrough transcript
NCBI Summary for NME2	This locus represents naturally occurring read-through transcription between the neighboring NME1 and NME2 genes. The significance of this read-through transcription and the function of the resulting protein product have not yet been determined. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Nov 2010]

UniProt Comments for NME2	NME2: Major role in the synthesis of nucleoside triphosphates other than ATP. Negatively regulates Rho activity by interacting with AKAP13/LBC. Acts as a transcriptional activator of the MYC gene; binds DNA non-specifically (PubMed:8392752). Exhibits histidine protein kinase activity. Belongs to the NDK family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Kinase, other; Nucleotide Metabolism - pyrimidine; EC 2.7.13.3; Nucleotide Metabolism - purine; Nuclear receptor co-regulator; EC 2.7.4.6; Kinase, nucleoside diphosphate; Other group; NDK family Chromosomal Location of Human Ortholog: 17q21.3 Cellular Component: ruffle; centrosome; focal adhesion; membrane; mitochondrion; perinuclear region of cytoplasm; lamellipodium; cytoplasm; intermediate filament; cytosol; nucleus Molecular Function: gamma-tubulin binding; protein binding; protein histidine kinase activity; metal ion binding; nucleoside diphosphate kinase activity; intermediate filament binding; protein kinase binding; transcription factor activity; ATP binding; single-stranded DNA binding Biological Process: integrin-mediated signaling pathway; GTP biosynthetic process; peptidyl-histidine phosphorylation; response to cAMP; transcription, DNA-dependent; nucleobase, nucleoside and nucleotide interconversion; nucleobase, nucleoside and nucleotide metabolic process; negative regulation of myeloid leukocyte differentiation; UTP biosynthetic process; hippocampus development; nucleoside diphosphate phosphorylation; response to testosterone stimulus; CTP biosynthetic process; regulation of transcription, DNA-dependent; pyrimidine nucleotide metabolic process; nucleoside triphosphate biosynthetic process; positive regulation of transcription from RNA polymerase II promoter; cell adhesion; positive regulation of epithelial cell proliferation; regulation of epidermis development; response to amine stimulus; positive regulation of keratinocyte differentiation; purine nucleotide metabolic process; negative regulation of apoptosis
Research Articles on NME2	**1.** Observational study of gene-disease association. (HuGE Navigator)
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