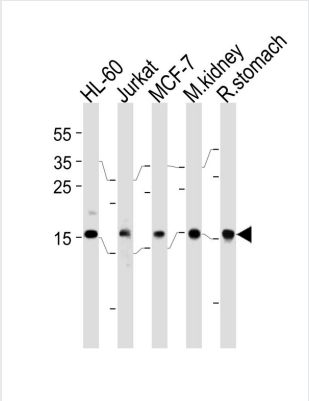
NME2 Antibody – Rabbit Polyclonal

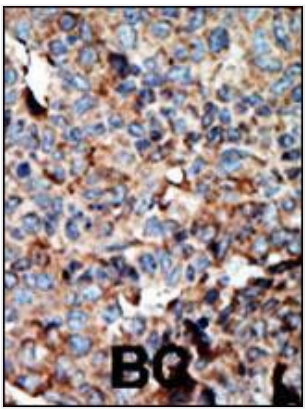
PRODUCT OVERVIEW

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) (Biotin)
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 Biotin.
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human NME2. Species Crossreactivity: mouse.
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. For maximum recovery of product, centrifuge the original vial after thawing and 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	Biotin
Note	Preservative Free
Product Categories/Family for anti-NME2 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-NME2 antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-NME2 antibody	IHC: 1:50-1:100 ELISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-NME2 antibody	MBS6490762 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) (Biotin). 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).

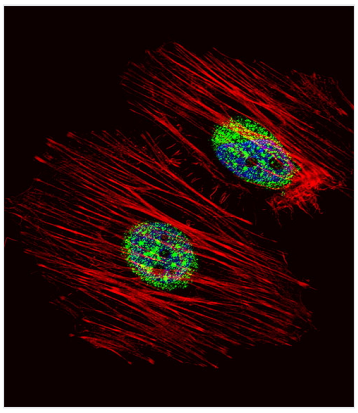
Other Notes	Small volumes of anti-NME2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-NME2 antibody
NME2 Antibody (F40) western blot analysis in HL-60,Jurkat,MCF-7 cell line,mouse kidney and rat stomach tissue lysates (35ug/lane).This demonstrates the NME2 antibody detected the NME2 protein (arrow).



Immunohistochemistry (IHC) of anti-NME2 antibody
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



Immunofluorescence (IF) of anti-NME2 antibody
Fluorescent confocal image of Hela cell stained with NME2 Antibody (N-term).Hela cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with NME2 primary antibody (1:25, 1 h at 37 degree C). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree C).Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37 degree C). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min). NME2 immunoreactivity is localized to Cytoplasm and Nucleus significantly.

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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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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