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NME2 (NDKB) Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP8159b

Specification

NME2 (NDKB) Antibody (C-term) Blocking peptide - Product Information

Primary Accession	P22392
Other Accession	Q32Q12

NME2 (NDKB) Antibody (C-term) Blocking peptide - Additional Information

Gene ID 4831;654364

Other Names
Nucleoside diphosphate kinase B, NDK B, NDP kinase B, C-myc purine-binding transcription factor PUF, Histidine protein kinase NDKB, nm23-H2, NME2, NM23B

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8159b was selected from the C-term region of human NDK8 . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NME2 (NDKB) Antibody (C-term) Blocking peptide - Protein Information

Name NME2

Synonyms NM23B

Function
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 (By similarity). Negatively regulates Rho activity by interacting with AKAP13/LBC (PubMed:15249197). Acts as a transcriptional activator of the MYC gene; binds DNA non-specifically (PubMed:8392752, PubMed:19435876). Binds to both single-stranded guanine- and cytosine-rich

strands within the nuclease hypersensitive element (NHE) III(1) region of the MYC gene promoter. Does not bind to duplex NHE III(1) (PubMed:19435876). Has G-quadruplex (G4) DNA-binding activity, which is independent of its nucleotide-binding and kinase activity. Binds both folded and unfolded G4 with similar low nanomolar affinities. Stabilizes folded G4s regardless of whether they are prefolded or not (PubMed:25679041). Exhibits histidine protein kinase activity (PubMed:20946858).

Cellular Location
Cytoplasm. Cell projection, lamellipodium. Cell projection, ruffle. Note=Colocalizes with ITGB1 and ITGB1BP1 at the edge or peripheral ruffles and lamellipodia during the early stages of cell spreading on fibronectin or collagen but not on vitronectin or laminin substrates [Isoform 3]: Cytoplasm. Cytoplasm, perinuclear region. Nucleus

Tissue Location
[Isoform 1]: Ubiquitously expressed.

NME2 (NDKB) Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

NME2 (NDKB) Antibody (C-term) Blocking peptide - Images