



# NM23-H2 Polyclonal Antibody

<b>Catalog No</b>	YP-Ab-14881
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB;ELISA
<b>Gene Name</b>	NME2
<b>Protein Name</b>	Nucleoside diphosphate kinase B
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human NM23. AA range:91-140
<b>Specificity</b>	NM23-H2 Polyclonal Antibody detects endogenous levels of NM23-H2 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	Western Blot: 1/500 - 1/2000. ELISA: 1/5000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	NME2; NM23B; Nucleoside diphosphate kinase B; NDK B; NDP kinase B; C-myc purine-binding transcription factor PUF; Histidine protein kinase NDKB; nm23-H2
<b>Observed Band</b>	23kD
<b>Cell Pathway</b>	Cytoplasm . Cell projection, lamellipodium . Cell projection, ruffle . 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 1]: Cytoplasm . Cytoplasm, perinuclear region . Nucleus . ; [Isoform 3]: Cytoplasm . Cytoplasm, perinuclear region . Nucleus .
<b>Tissue Specificity</b>	[Isoform 1]: Ubiquitously expressed. ; [Isoform 3]: Ubiquitously expressed.
<b>Function</b>	catalytic activity:ATP + nucleoside diphosphate = ADP + nucleoside triphosphate.,cofactor:Magnesium.,disease:This protein is found in reduced amount in tumor cells of high metastatic potential.,disease:This protein is found in reduced amount in tumor cells of high metastatic potential. Somatic mutations of NME1 are found in neuroblastoma. Increased NME1 in neuroblastoma is correlated with features of the disease that are associated with aggressive tumors. May therefore have distinct if not opposite roles in different tumors.,enzyme regulation:Autophosphorylation at His-118 increases serine/threonine protein kinase activity of the enzyme. Interaction with the SET complex inhibits exonuclease activity.,function: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

#### Background

Nucleoside diphosphate kinase (NDK) exists as a hexamer composed of &Apos;A&apos; (encoded by NME1) and &Apos;B&apos; (encoded by this gene) isoforms. Multiple alternatively spliced transcript variants have been found for this gene. Read-through transcription from the neighboring upstream gene (NME1) generates naturally-occurring transcripts (NME1-NME2) that encode a fusion protein comprised of sequence sharing identity with each individual gene product. [provided by RefSeq, Nov 2010],

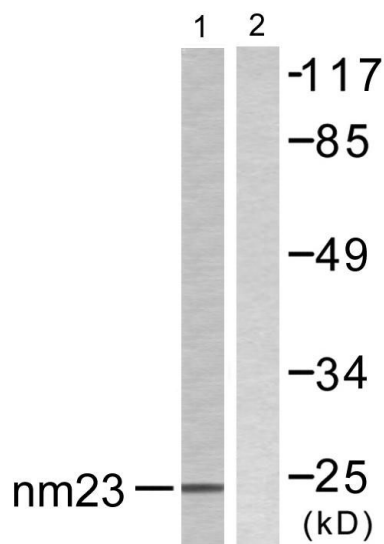
#### matters needing attention

Avoid repeated freezing and thawing!

#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

### Products Images



Western blot analysis of lysates from K562 cells, using NM23 Antibody. The lane on the right is blocked with the synthesized peptide.