

Product Name: KD-Validated NME1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01743**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 17.1kDa

Antigen Information

Gene Name	NME1 NME1; NME/NM23 Nucleoside Diphosphate Kinase 1; NM23-H1; NDPKA; NM23; Non-Metastatic Cells 1, Protein (NM23A) Expressed In; Tumor Metastatic Process-Associated
Alternative Names	Protein; Metastasis Inhibition Factor Nm23; Nucleoside Diphosphate Kinase A; Granzyme A-Activated DNase; NDP Kinase A; EC 2.7.4.6; GAAD; Epididymis Secretory Sperm Binding Protein; NDPK-A; NDK A; NDKA; AWD; NBS; NB
Gene ID	4830.0
SwissProt ID	P15531
Immunogen	A synthesized peptide derived from human NM23A

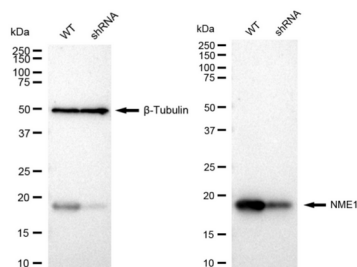
Background

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]

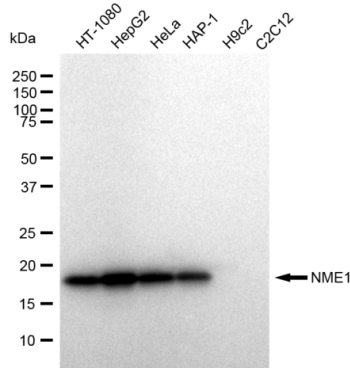
Research Area

Epigenetics and Nuclear Signaling

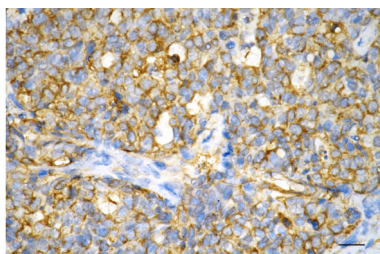
Image Data



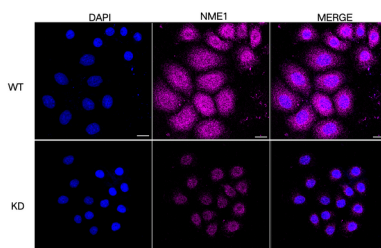
Western blotting analysis using NME1 antibody (KVAb01743). NME1 expression in wild type (WT) and NME1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with NME1 antibody (KVAb01743, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



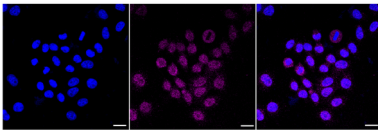
Western blotting analysis using NME1 antibody (KVAb01743). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with NME1 antibody (KVAb01743, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



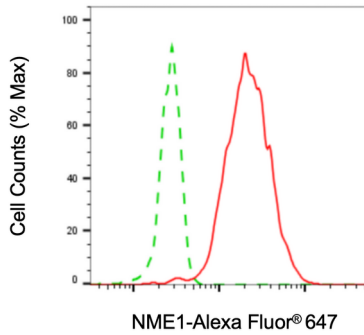
Immunohistochemistry was performed on paraffin-embedded human breast carcinoma using NME1 antibody (KVAb01743, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HeLa cells using NME1 antibody (KVAb01743, 1:1,000). Top panel: wild-type (WT); Bottom panel: NME1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; NME1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of HepG2 cells with NME1 antibody (KVA01743, 1:1,000). Nuclei were stained blue with DAPI; NME1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar: 20 μ m.



Flow cytometric analysis of NME1 expression in HepG2 cells using NME1 antibody (KVA01743, 1:2,000). Green, isotype control; red, NME1.