ARG65742
anti-NM23A antibody

Package: 100 µg, 50 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes NM23A
Tested Reactivity	Hu
Tested Application	WB
Specificity	This antibody is expected to recognize both reported isoforms (NP_937818.1; NP_000260.1).
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	NM23A
Species	Human
Immunogen	Synthetic peptide around the C-terminus of Human NM23A. (DYTSCAQNWIYE)
Conjugation	Un-conjugated
Alternate Names	NDP kinase A; NDPK-A; NM23; Nucleoside diphosphate kinase A; Granzyme A-activated DNase; NDKA; NBS; NM23-H1; NB; NDPKA; NDK A; Tumor metastatic process-associated protein; EC 2.7.4.6; GAAD; AWD; Metastasis inhibition factor nm23

Application Instructions

Application table

Application	Dilution
WB	0.01 - 0.03 µg/ml

Application Note

WB: Recommend incubate at RT for 1h.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

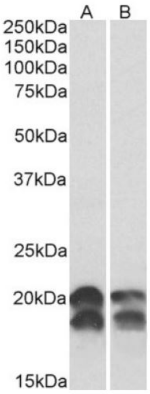
Form	Liquid
Purification	Affinity purified
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 4830 Human Swiss-port # P15531 Human
Gene Symbol	NME1
Gene Full Name	NME/NM23 nucleoside diphosphate kinase 1
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]
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. Possesses nucleoside-diphosphate kinase, serine/threonine-specific protein kinase, geranyl and farnesyl pyrophosphate kinase, histidine protein kinase and 3'-5' exonuclease activities. Involved in cell proliferation, differentiation and development, signal transduction, G protein-coupled receptor endocytosis, and gene expression. Required for neural development including neural patterning and cell fate determination. During GZMA-mediated cell death, works in concert with TREX1. NME1 nicks one strand of DNA and TREX1 removes bases from the free 3' end to enhance DNA damage and prevent DNA end reannealing and rapid repair. [UniProt]
Calculated Mw	19.7 kDa (NP_937818.1); 17.1 kDa (NP_000260.1)

Images



ARG65742 anti-NM23A antibody WB image

Western blot: 35 µg of A549 (A) and HeLa (B) lysates stained with ARG65742 anti-NM23A antibody at 0.01 µg/ml dilution (1 hour incubation).