

ARG57180
anti-NM23A antibody [5F4]Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [5F4] recognizes NM23A
Tested Reactivity	Hu
Tested Application	WB
Host	Mouse
Clonality	Monoclonal
Clone	5F4
Isotype	IgG2b, kappa
Target Name	NM23A
Species	Human
Immunogen	Recombinant fragment around aa. 1-152 of Human NM23A
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	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 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. 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]

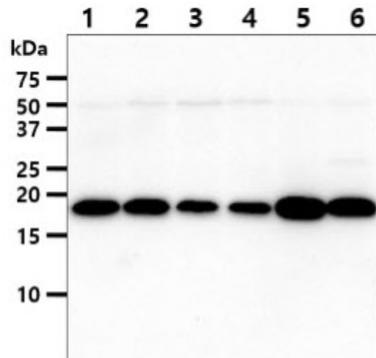
Function

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

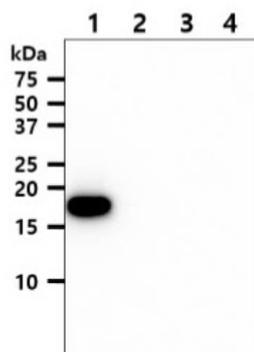
17 kDa

Images



ARG57180 anti-NM23A antibody [5F4] WB image

Western blot: 40 µg of 1) HeLa, 2) A549, 3) Jurkat, 4) HepG2, 5) MCF7, and 6) PC3 cell lysates stained with ARG57180 anti-NM23A antibody [5F4] at 1:1000.



ARG57180 anti-NM23A antibody [5F4] WB image

Western blot: 50 ng of 1) NME1, 2) NME2, 3) NME3, and 4) NME4 recombinant proteins stained with ARG57180 anti-NM23A antibody [5F4] at 1:1000.