

ARG55670 anti-NM23A antibody [1172CT2.4.1.1]

Package: 100 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes NM23A
Tested Reactivity	Hu, Rat
Tested Application	IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	1172CT2.4.1.1
Isotype	IgG2a
Target Name	NM23A
Species	Human
Immunogen	Purified His-tagged 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
	IHC-P	1:25
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Jurkat	

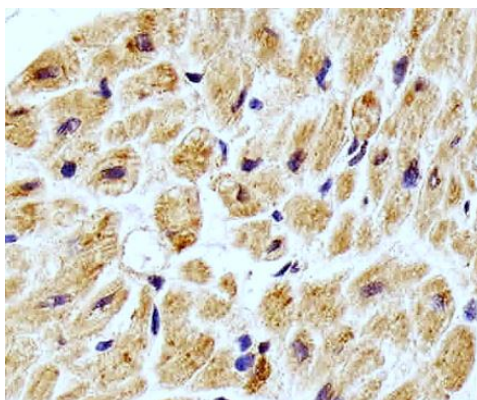
Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.09% (W/V) Sodium azide.
Preservative	0.09% (W/V) Sodium azide.
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: 191575 Rat GeneID: 4830 Human Swiss-port # P15531 Human Swiss-port # Q05982 Rat
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
Cellular Localization	Cytoplasm. Nucleus. Note=Cell-cycle dependent nuclear localization which can be induced by interaction with Epstein-barr viral proteins or by degradation of the SET complex by GzmA

Images



ARG55670 anti-NM23A antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human heart tissue stained with ARG55670 anti-NM23A antibody at 1:25 dilution.

ARG55670 anti-NM23A antibody WB image

Western blot: 20 µg of Jurkat cell lysate stained with ARG55670 anti-NM23A antibody at 1:1000 dilution.

