ARG55238
anti-NME2 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes NME2 (N-term)
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	NME2
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 25-54 (N-terminus) of Human NME2.
Conjugation	Un-conjugated
Alternate Names	Nucleoside diphosphate kinase B; NDPK-B; NDP kinase B; NDKB; NDPKB; EC 2.7.13.3; PUF; Histidine protein kinase NDKB; NDK B; EC 2.7.4.6; NM23B; C-myc purine-binding transcription factor PUF; NM23-H2; nm23-H2

Application Instructions

Application table

Application	Dilution
ICC/IF	1:10 - 1:50
IHC-P	Assay-dependent
WB	1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

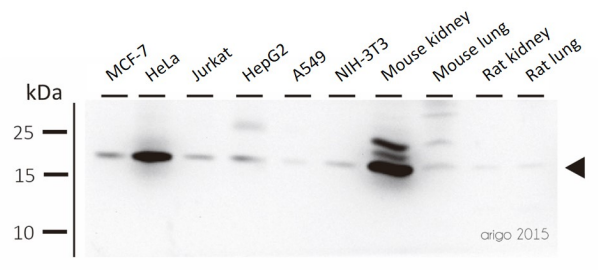
Properties

Form	Liquid
Purification	Purification with Protein 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

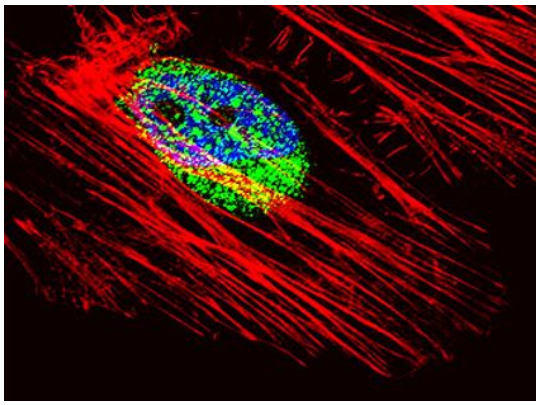
Gene Symbol	NME2
Gene Full Name	NME/NM23 nucleoside diphosphate kinase 2
Background	Nucleoside diphosphate kinase (NDK) exists as a hexamer composed of 'A' (encoded by NME1) and 'B' (encoded by this gene) isoforms. Multiple alternatively spliced transcript variants have been found for this gene. Read-through 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]
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 MYC gene; binds DNA non-specifically (PubMed:8392752). Exhibits histidine protein kinase activity. [UniProt]
Research Area	Cancer antibody; Metabolism antibody; Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	17 kDa
Cellular Localization	Cytoplasm. Nucleus. Cell projection, lamellipodium. Cell projection, ruffle. Note=Isoform 2 is mainly cytoplasmic and isoform 1 and isoform 2 are excluded from the nucleolus. 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

Images



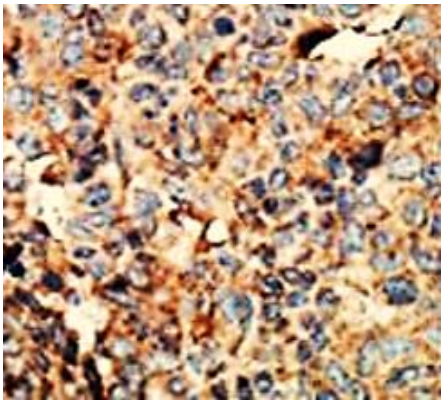
ARG55238 anti-NME2 antibody WB image

Western blot: 30 µg of MCF-7, HeLa, Jurkat, HepG2, A549, NIH-3T3, Mouse kidney, Mouse lung, Rat kidney and Rat lung lysates stained with ARG55238 anti-NME2 antibody at 1:500 dilution.



ARG55238 anti-NME2 antibody (N-term) ICC/IF image

Immunofluorescence: HeLa cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then stained with ARG55238 anti-NME2 antibody (N-term) (green) at 1:25 dilution, 1 hour at 37°C. Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7 units/ml, 1 hour at 37°C). Nuclei were counterstained with DAPI (blue) (10 µg/ml, 10 min).



ARG55238 anti-NME2 antibody (N-term) IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human cancer tissue stained with ARG55238 anti-NME2 antibody (N-term).