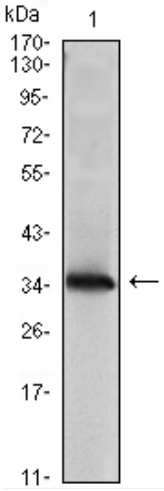
NM23-H1 Monoclonal Antibody

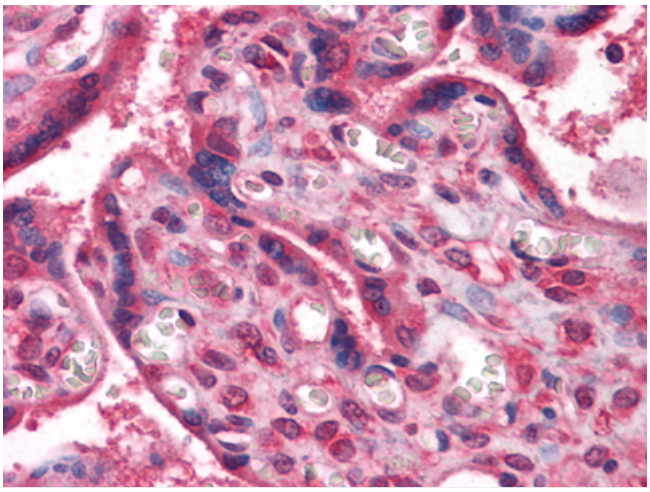
Catalog No	YP-Ab-14178
Isotype	IgG
Reactivity	Human
Applications	WB;IHC;IF;FCM;ELISA
Gene Name	NME1
Protein Name	Nucleoside diphosphate kinase A
Immunogen	Purified recombinant fragment of human NM23-H1 expressed in E. Coli.
Specificity	NM23-H1 Monoclonal Antibody detects endogenous levels of NM23-H1 protein.
Formulation	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/200 - 1/1000. Immunofluorescence: 1/200 - 1/1000. Flow cytometry: 1/200 - 1/400. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	NME1; NDPKA; NM23; Nucleoside diphosphate kinase A; NDK A; NDP kinase A; Granzyme A-activated DNase; GAAD; Metastasis inhibition factor nm23; Tumor metastatic process-associated protein; nm23-H1
Observed Band	
Cell Pathway	Cytoplasm . Nucleus . 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.
Tissue Specificity	Isoform 1 is expressed in heart, brain, placenta, lung, liver, skeletal muscle, pancreas, spleen and thymus. Expressed in lung carcinoma cell lines but not in normal lung tissues. Isoform 2 is ubiquitously expressed and its expression is also related to tumor differentiation.
Function	catalytic activity:ATP + nucleoside diphosphate = ADP + nucleoside triphosphate.,cofactor:Magnesium.,disease:This protein is found in reduced amount in tumor cells of high metastatic potential.,disease:This protein is found in reduced amount in tumor cells of high metastatic potential. Somatic mutations of NME1 are found in neuroblastoma. Increased NME1 in neuroblastoma is correlated with features of the disease that are associated with aggressive tumors. May therefore have distinct if not opposite roles in different tumors.,enzyme regulation:Autophosphorylation at His-118 increases serine/threonine protein kinase activity of the enzyme. Interaction with the SET complex inhibits exonuclease activity.,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
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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

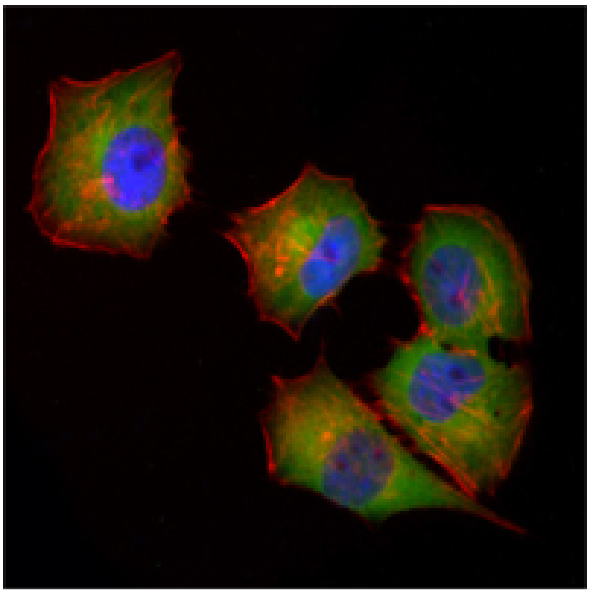
Products Images



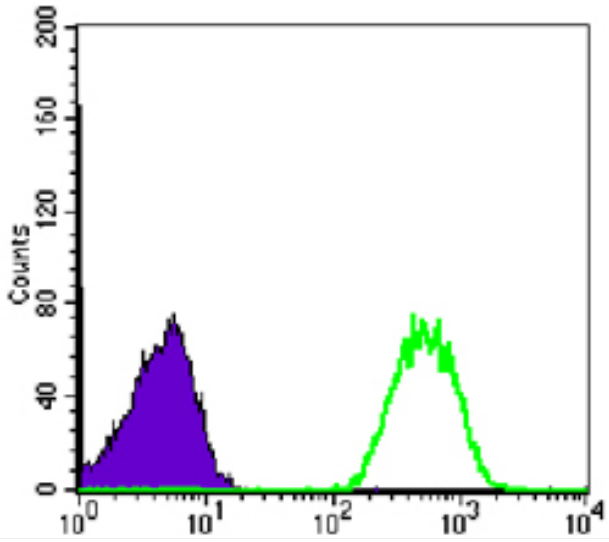
Western Blot analysis using NM23-H1 Monoclonal Antibody against NME1-hIgGFc transfected HEK293 cell lysate.



Immunohistochemistry analysis of paraffin-embedded human Placenta tissues with AEC staining using NM23-H1 Monoclonal Antibody.



Immunofluorescence analysis of Hela cells using NM23-H1 Monoclonal Antibody (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. Blue: DRAQ5 fluorescent DNA dye.



Flow cytometric analysis of Jurkat cells using NM23-H1 Monoclonal Antibody (green) and negative control (purple).