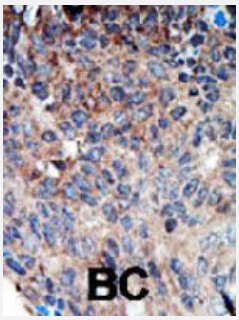
NME1 polyclonal antibody

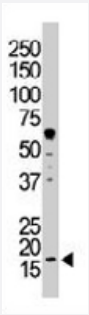
Catalog # PAB3290 Size 400 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with NME1 polyclonal antibody (Cat # PAB3290) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma.



Western Blot (Cell lysate)

The NME1 polyclonal antibody (Cat # PAB3290) is used in Western blot to detect NME1 in A-375 cell lysate.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of NME1.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human NME1.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification

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Recommend Usage	Immunofluorescence (1:10-50) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-100) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Formalin-fixed and paraffin-embedded human cancer tissue reacted with NME1 polyclonal antibody (Cat # PAB3290) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma.

- Immunofluorescence

- Western Blot (Cell lysate)

  The NME1 polyclonal antibody (Cat # PAB3290) is used in Western blot to detect NME1 in A-375 cell lysate.

Gene Info — NME1

Entrez GeneID	4830
Protein Accession#	P15531
Gene Name	NME1
Gene Alias	AWD, GAAD, NB, NBS, NDPK-A, NDPKA, NM23, NM23-H1
Gene Description	non-metastatic cells 1, protein (NM23A) expressed in
Omim ID	156490 256700
Gene Ontology	Hyperlink

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Gene Summary	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
Other Designations	NDP kinase A|OTTHUMP00000174772

Publication Reference

- Nm23/NDP kinases in human male germ cells: role in spermiogenesis and sperm motility?

  Munier A, Serres C, Kann ML, Boissan M, Lesaffre C, Capeau J, Fouquet JP, Lacombe ML.

  Experimental Cell Research 2003 Oct; 289(2):295.

  Application: ELISA, IEM, IF, IHC-P, WB, Human, Spermatozoa, Testis biopsies

- Nucleotide binding to nucleoside diphosphate kinases: X-ray structure of human NDPK-A in complex with ADP and comparison to protein kinases.

  Chen Y, Gallois-Montbrun S, Schneider B, Veron M, Morera S, Deville-Bonne D, Janin J.

  Journal of Molecular Biology 2003 Sep; 332(4):915.

- Point mutations affecting the oligomeric structure of Nm23-H1 abrogates its inhibitory activity on colonization and invasion of prostate cancer cells.

  Kim YI, Park S, Jeoung DI, Lee H.

  Biochemical and Biophysical Research Communications 2003 Jul; 307(2):281.

  Application: WB-Tr, Human, DU145 cells

Pathway

- Metabolic pathways
- Purine metabolism
- Pyrimidine metabolism

Disease

- Breast cancer

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- Breast Neoplasms
- Carcinoma
- Endometrial Neoplasms
- Genetic Predisposition to Disease
- Lung Neoplasms
- Neoplasm Metastasis

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