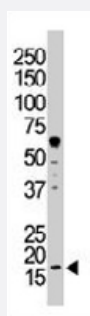


# NME1 polyclonal antibody

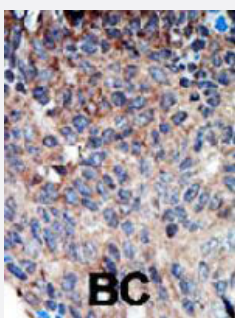
Catalog # PAB3290      Size 400 uL

## Applications



### Western Blot (Cell lysate)

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



### 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.

## Specification

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

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

## Applications

- Western Blot (Cell lysate)

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

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

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- Immunofluorescence

## Gene Info — NME1

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

**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](#)

- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Endometrial Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Lung Neoplasms](#)
- [Neoplasm Metastasis](#)