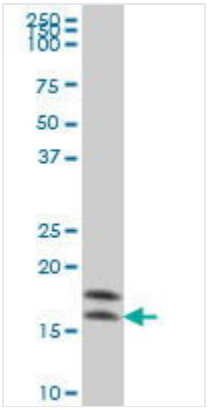
# NME2 Antibody – Mouse Monoclonal

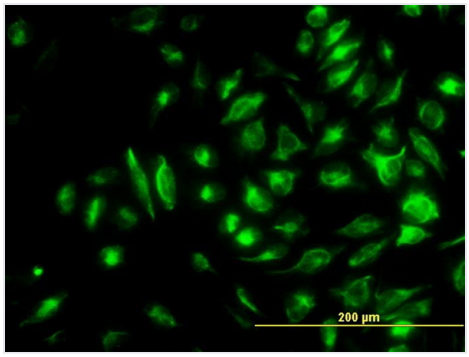
## PRODUCT OVERVIEW

| | |
|---|---|
| **Product Name** | NME2, Monoclonal Antibody |
| **Full Product Name** | NME2 (Non-Metastatic Cells 2, Protein (NM23B) Expressed in, MGC111212, NDPK-B, NDPKB, NM23-H2, NM23B, puf) (FITC) |
| **Product Gene Name** | anti-NME2 antibody |
| **Product Synonym Names** | Non-Metastatic Cells 2; Protein (NM23B) Expressed in; MGC111212; NDPK-B; NDPKB; NM23-H2; NM23B; puf |
| **Clonality** | Monoclonal |
| **Isotype** | IgG3,k |
| **Clone Number** | 1D3 |
| **Host** | Mouse |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC). |
| **Purity/Purification** | Purified |
| **Specificity** | Recognizes NME2. |
| **Preparation and Storage** | Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions ca be made in assay buffer.<br><br>FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |
| **OMIM** | 156491 |
| **3D Structure** | ModBase 3D Structure for P22392 |
| **Immunogen** | NME2 (NP_002503, 51aa-152aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD. |
| **Immunogen Sequence** | HYIDLKDRPFFPGLVKYMNSGPVVAMVWEGLNVVKTGRVMLGETNPADSKPGTIRGDFCIQVGRNIIHGSDSVKSAEKEISLWFKPEELVDYKSCAHDWV |
| **Conjugate** | FITC |
| **Product Categories/Family for anti-NME2 antibody** | Antibodies; Protein Kinases |
| **Applications Tested/Suitable for anti-NME2 antibody** | Immunofluorescence (IF), Immunohistochemistry (IHC), Western Blot (WB) |
| **Application Notes for anti-NME2 antibody** | Applications are based on unconjugated antibody. |
| **Related Product Information for anti-NME2 antibody** | 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 encoding the same isoform have been found for this gene. Co-transcription of this gene and the neighboring upstream gene (NME1) generates naturally-occurring transcripts (NME1-NME2) which encode a fusion protein comprised of sequence sharing identity with each individual gene product. [provided by RefSeq] |

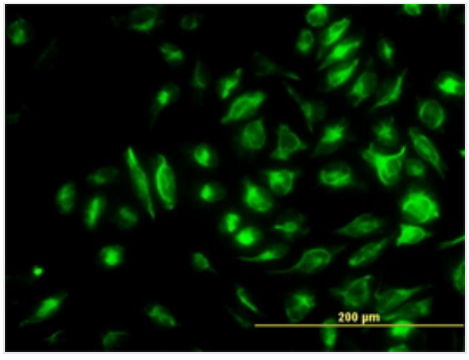
| | |
|---|---|
| **Product References and Citations for anti-NME2 antibody** | 1. Early Insights into the Function of KIAA1199, a Markedly Overexpressed Protein in Human Colorectal Tumors.Tiwari A, Schneider M, Fiorino A, Haid R, Okoniewski MJ, Roschitzki B, Uzozie A, Menigatti M, Jiricny J, Marra G.PLoS One. 2013 Jul 23;8(7):e69473 |
| **Other Notes** | Small volumes of anti-NME2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry and additional dry ice fee may apply. |
| **Searchable Terms for NME2 purchase** | MBS6175632 is an antibody targeting NME2. Also known as NME2 (Non-Metastatic Cells 2, Protein (NM23B) Expressed in, MGC111212, NDPK-B, NDPKB, NM23-H2, NM23B, puf) (FITC). Host: Mouse. |



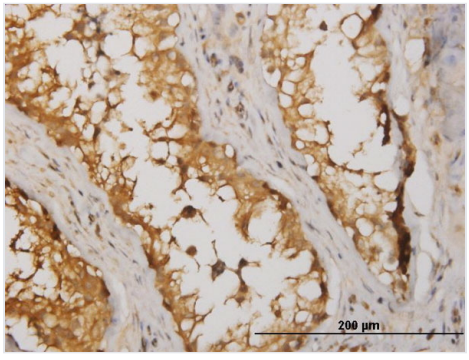

**Western Blot (WB) of anti-NME2 antibody**
NME2 monoclonal antibody (M06), clone 1D3 Western Blot analysis of NME2 expression in HeLa (Cat # L013V1).



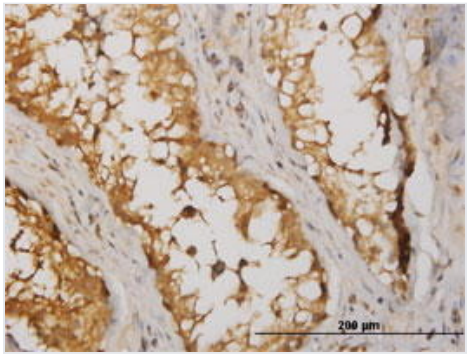

**Immunofluorescence (IF) of anti-NME2 antibody**
Immunofluorescence of monoclonal antibody to NME2 on HeLa cell. [antibody concentration 10 ug/ml]



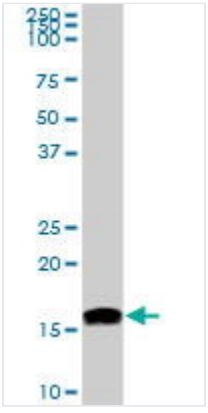

**Immunofluorescence (IF) of anti-NME2 antibody**
Immunofluorescence of monoclonal antibody to NME2 on HeLa cell. [antibody concentration 10 ug/ml]




**Immunohistochemistry (IHC) of anti-NME2 antibody**
Immunoperoxidase of monoclonal antibody to NME2 on formalin-fixed paraffin-embedded human testis. [antibody concentration 1.5 ug/ml]




**Immunohistochemistry (IHC) of anti-NME2 antibody**
Immunoperoxidase of monoclonal antibody to NME2 on formalin-fixed paraffin-embedded human testis. [antibody concentration 1.5 ug/ml]




**Western Blot (WB) of anti-NME2 antibody**
NME2 monoclonal antibody (M06), clone 1D3. Western Blot analysis of NME2 expression in NIH/3T3 (Cat # L018V1).

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NME2. It may not necessarily be applicable to this product.

| | |
|---|---|
| **NCBI GI #** | 4505409 |
| **NCBI GeneID** | 4831 |
| **NCBI Accession #** | NP_002503 |
| **UniProt Primary Accession #** | P22392 |
| **UniProt Related Accession #** | P22392 |
| **GenBank Nucleotide #** | NP_002503.1 |
| **NCBI Official Full Name** | nucleoside diphosphate kinase B isoform a |
| **NCBI Official Synonym Full Names** | NME/NM23 nucleoside diphosphate kinase 2 |
| **NCBI Official Symbol** | NME2 |
| **NCBI Official Synonym Symbols** | PUF; NDKB; NDPKB; NM23B; NDPK-B; NM23-H2 |
| **UniProt Protein Name** | Nucleoside diphosphate kinase B |
| **UniProt Synonym Protein Names** | C-myc purine-binding transcription factor PUF; Histidine protein kinase NDKB (EC:2.7.13.3); nm23-H2 |
| **UniProt Gene Name** | NME2 |
| **UniProt Synonym Gene Names** | NM23B; NDK B; NDP kinase B |
| **UniProt Entry Name** | NDKB_HUMAN |
| **NCBI Protein Information** | nucleoside diphosphate kinase B |
| **NCBI Summary for NME2** | 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] |
| **UniProt Comments for NME2** | NME2: 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. Belongs to the NDK family. 2 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Kinase, other; Nucleotide Metabolism - pyrimidine; EC 2.7.13.3; Nucleotide Metabolism - purine; Nuclear receptor co-regulator; EC 2.7.4.6; Kinase, nucleoside diphosphate; Other group; NDK family<br><br>Chromosomal Location of Human Ortholog: 17q21.3<br><br>Cellular Component: ruffle; centrosome; focal adhesion; membrane; mitochondrion; perinuclear region of cytoplasm; lamellipodium; cytoplasm; intermediate filament; cytosol; nucleus<br><br>Molecular Function: gamma-tubulin binding; protein binding; protein histidine kinase activity; metal ion binding; nucleoside diphosphate kinase activity; intermediate filament binding; protein kinase binding; transcription factor activity; ATP binding; single-stranded DNA binding<br><br>Biological Process: integrin-mediated signaling pathway; GTP biosynthetic process; peptidyl-histidine phosphorylation; response to cAMP; transcription, DNA-dependent; nucleobase, nucleoside and nucleotide interconversion; nucleobase, nucleoside and nucleotide metabolic process; negative regulation of myeloid leukocyte differentiation; UTP biosynthetic process; hippocampus development; nucleoside diphosphate phosphorylation; response to testosterone stimulus; CTP biosynthetic process; regulation of transcription, DNA-dependent; pyrimidine nucleotide metabolic process; nucleoside triphosphate biosynthetic process; positive regulation of transcription from RNA polymerase II promoter; cell adhesion; positive regulation of epithelial cell proliferation; regulation of epidermis development; response to amine stimulus; positive regulation of keratinocyte differentiation; purine nucleotide metabolic process; negative regulation of apoptosis |

| | |
|---|---|
| **Research Articles on NME2** | **1.** miR-645 was up-regulated in osteosarcoma tissues and could promote osteosarcoma cell migration through directly inhibiting the tumor suppressor NME2 |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
| **Disclaimer** | While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice.<br><br>It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information. |
| **Product Note** | Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details. |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures.

**MyBioSource** | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/monoclonal-antibody/nme2/6175632