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Human NM23-H1/NME1 antibody

Catalog Number: ATGA0461

PRODUCT INFORMATION

Catalog number
ATGA0461

Clone No.
AT5F4

Product type
Monoclonal Antibody

UnitProt No.
P15531

NCBI Accession No.
NP_000260

Alternative Names
NME/NM23 nucleoside diphosphate kinase 1, Nucleoside diphosphate kinase A, Granzyme A-activated Dnase, GAAD, Metastasis inhibition factor nm23, NM23-H1, Tumor metastatic process-associated protein, NDK A, NDP kinase A, NDPKA, NM23

PRODUCT SPECIFICATION

Antibody Host
Mouse

Reacts With
Human

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen
Recombinant human NME1 (1-152aa) purified from E. coli

Isotype
IgG2b kappa

Purification Note
By protein-A affinity chromatography

Application
ELISA, WB, ICC/IF

Usage
The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

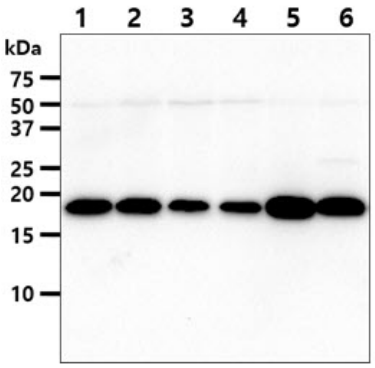
Non-metastatic cells 1 (NME1), also known as NM23-H1, originally identified as a candidate metastasis suppressor gene. NME1 is expressed in different tumor types where their levels have been alternatively associated with reduced or increased metastatic potential. Reductions in NME1 expression have been significantly associated with aggressive behavior in melanoma, breast, colon, and gastric carcinomas. On the contrary, high levels of NME1 gene expression are noted in the advanced stage of thyroid carcinomas.

General References

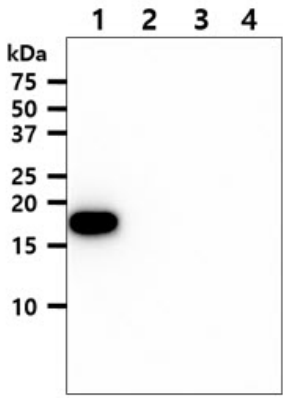
Tee YT., et al. (2006) Taiwan J Obstet Gynecol. 45(2): 107-13.
Negroni A., et al. (2000) Cell Death Differ. 7(9): 843-50.

DATA

Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NME1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1 : HeLa cell lysate
Lane 2 : A549 cell lysate
Lane 3 : Jurkat cell lysate
Lane 4 : HepG2 cell lysate
Lane 5 : MCF7 cell lysate
Lane 6 : PC3 cell lysate



The recombinant proteins (50ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NME1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1 : Recombinant Human NME1 protein
Lane 2 : Recombinant Human NME2 protein
Lane 3 : Recombinant Human NME3 protein
Lane 4 : Recombinant Human NME4 protein

Immunocytochemistry/Immunofluorescence (ICC/IF)

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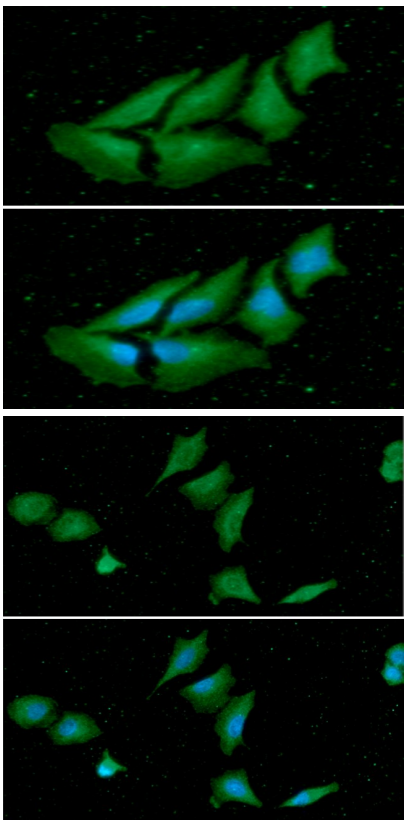

ICC/IF analysis of NME1 in HeLa cells. The cell was stained with ATGA0461 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

ICC/IF analysis of NME1 in A549 cells. The cell was stained with ATGA0461 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).