

NME1+NME2 Polyclonal antibody

Catalog Number: 33046-1-AP

Basic Information

Catalog Number:

33046-1-AP

Concentration:

250 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG37892

GenBank Accession Number:

BC107894

GeneID (NCBI):

654364

UNIPROT ID:

P22392

Full Name:

NME1-NME2 readthrough transcript

Calculated MW:

17 kDa / 20 kDa

Observed MW:

17 kDa, 20 kDa

Purification Method:

Antigen affinity Purification

Recommended Dilutions:

WB: 1:5000-1:50000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : A549 cells, HEK-293T cells, HT-1080 cells, HeLa cells, HepG2 cells, MCF-7 cells, Jurkat cells

Background Information

NME1 and NME2 are associated with metastatic tumor suppression. NME1 and NME2 are multispecificity kinases phosphorylating serine, threonine, histidine, and aspartic acid residues of substrate proteins (PMID: 39032654). NME1 can catalyze the transfer of the terminal phosphate group of nucleoside triphosphates to nucleoside diphosphates to generate nucleoside triphosphates, which is crucial for DNA synthesis and repair. It also participates in cell signal transduction, proliferation, differentiation, and apoptosis. Reduced expression of NME1 is associated with increased tumor metastasis. For instance, in breast cancer, gastric cancer, and other malignancies, restoring NME1 expression can inhibit tumor invasion and metastasis. Similar to NME1, NME2 possesses nucleoside diphosphate kinase activity, participating in nucleotide metabolism and cell signaling regulation. It can form hexameric complexes with NME1 and also exists as homohexamers. Its functions overlap with those of NME1 to some extent but also exhibit unique roles in certain physiological processes. NME2 is involved in tumor metastasis regulation. However, its expression changes and specific mechanisms in different cancers may vary. In some tumors, NME2 expression is downregulated, while in others, it may be upregulated. For example, in hepatocellular carcinoma, reduced NME2 expression is associated with tumor progression and poor prognosis, whereas in ovarian cancer, elevated NME2 expression may promote tumor cell proliferation and metastasis.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

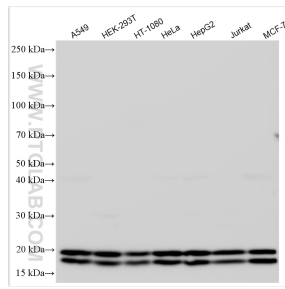
For technical support and original validation data for this product please contact:

T: 4006900926

E: Proteintech-CN@ptglab.comW: ptgcn.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 33046-1-AP (NME1-NME2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.