

For Research Use Only

# NME1+NME2 Polyclonal antibody, PBS Only

Catalog Number:33046-1-PBS



## Basic Information

<b>Catalog Number:</b> 33046-1-PBS	<b>GenBank Accession Number:</b> BC107894	<b>Purification Method:</b> Antigen affinity Purification
<b>Concentration:</b> 1 mg/ml	<b>GeneID (NCBI):</b> 654364	
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P22392	
<b>Isotype:</b> IgG	<b>Full Name:</b> NME1-NME2 readthrough transcript	
<b>Immunogen Catalog Number:</b> AG37892	<b>Calculated MW:</b> 17 kDa / 20 kDa	
	<b>Observed MW:</b> 17 kDa, 20 kDa	

## Applications

**Tested Applications:**  
WB, Indirect ELISA

**Species Specificity:**  
human

## 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 -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS only, pH7.3

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

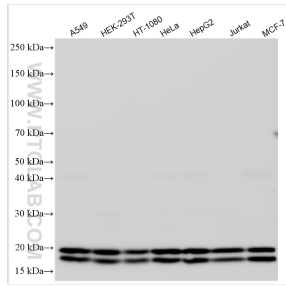
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**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## 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. This data was developed using the same antibody clone with 33046-1-PBS in a different storage buffer formulation.