10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

NME3 Rabbit mAb

Catalog # AP76620

Product Information

Application	WB, IHC-P, IP
Primary Accession	Q13232
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	19015

Additional Information

Gene ID	4832
Other Names	NME3
Dilution	WB~~1:1000 IHC-P~~N/A IP~~N/A
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

Name	NME3 (HGNC:7851)
Function	Catalyzes the transfer of a gamma-phosphoryl group from a nucleoside triphosphate, mainly ATP, to a nucleoside diphosphate via a ping-pong mechanism involving a phosphohistidine intermediate, therefore contributing to the nucleoside triphosphate homeostasis (PubMed:11277919, PubMed:30587587, PubMed:39337255). In vitro, can also use other phosphate donors such as UTP and GTP (PubMed:30587587, PubMed:39337255). Independently of its nucleoside diphosphate kinase activity, involved in mitochondrial membrane tethering, a prerequisite for fusion through direct membrane-binding and hexamerization (PubMed:30587587, PubMed:37584589). Involved in DNA repair of both single- and double-stranded breaks by associating with the ribonucleotide reductase (RNR) complex via interaction with the histone acetyltransferase KAT5, facilitating recruitment to DNA damage sites independently of its kinase activity (PubMed:26945015). Inhibits granulocyte differentiation (PubMed:7638209). May be required for ciliary function during renal

	development (By similarity).
Cellular Location	Mitochondrion outer membrane; Peripheral membrane protein. Cytoplasm Cytoplasm, cytoskeleton, cilium basal body {ECO:0000250|UniProtKB:Q9WV85}

Background

Catalyzes the phosphorylation of ribonucleosides and deoxyribonucleoside diphosphates, other than ATP, into the corresponding triphosphates with ATP as the major phosphate donor (PubMed:11277919, PubMed:30587587).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.