

# NME3 Rabbit mAb

Catalog # AP76620

## Product Information

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<b>Application</b>	WB, IHC-P, IP
<b>Primary Accession</b>	<a href="#">Q13232</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Affinity Purified
<b>Calculated MW</b>	19015

## Additional Information

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

## Protein Information

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<b>Name</b>	NME3 ( <a href="#">HGNC:7851</a> )
<b>Function</b>	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: <a href="#">11277919</a> , PubMed: <a href="#">30587587</a> , PubMed: <a href="#">39337255</a> ). In vitro, can also use other phosphate donors such as UTP and GTP (PubMed: <a href="#">30587587</a> , PubMed: <a href="#">39337255</a> ). Independently of its nucleoside diphosphate kinase activity, involved in mitochondrial membrane tethering, a prerequisite for fusion through direct membrane-binding and hexamerization (PubMed: <a href="#">30587587</a> , PubMed: <a href="#">37584589</a> ). 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: <a href="#">26945015</a> ). Inhibits granulocyte differentiation (PubMed: <a href="#">7638209</a> ). 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**

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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).

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