

NME3 Rabbit pAb

Catalog # AP100222

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q13232
Other Accession	Q13232
Host	Rabbit
Clonality	Polyclonal
Calculated MW	19015
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NME3
Epitope Specificity	81-169/169
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the NDK family.
DISEASE	Preferentially expressed at early stages of myeloid differentiation of highly purified CD34+ cells.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Additional Information

Gene ID	4832
Other Names	DR-nm23; NDPK-C; NDPKC; NM23-H3; NM23H3; c371H6.2; 1810009F08Rik; Ndk3; Nm23-DR; Nm23-M3; NDK3_HUMAN; NME3; NDK 3; NDP kinase 3; Nucleoside diphosphate kinase C (NDPKC); 2.7.4.6; NDK3_MOUSE; NME/NM23 nucleoside diphosphate kinase 3; non-metastatic cells 3, protein expressed in
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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}

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