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NME3 Rabbit pAb

Catalog # AP100222

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q13232
Other Accession	Q13232
Reactivity	Rat
Predicted	Pig, Human, Mouse, Sheep
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'.