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

NME6 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58692

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	O75414
Reactivity	Rat, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	21142

Additional Information

Gene ID	10201
Other Names	Nucleoside diphosphate kinase 6, NDK 6, NDP kinase 6, 2.7.4.6, Inhibitor of p53-induced apoptosis-alpha, IPIA-alpha, nm23-H6, NME6
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	NME6 {ECO:0000303|PubMed:10453732, ECO:0000312|HGNC:HGNC:20567}
Function	Catalytic subunit of a complex with RCC1L, which catalyzes the transfer of a gamma-phosphoryl group from a nucleoside triphosphate, mainly ATP, to a nucleoside diphosphate via a ping-pong mechanism involving the formation of a phosphohistidine intermediate (PubMed:10618642, PubMed:34789336, PubMed:37770567). Participates in the regulation of mitochondrial nucleotide levels, mitoribosome biogenesis, and mitochondrial RNA abundances (PubMed:10618642, PubMed:34789336, PubMed:37770567). Supplies pyrimidine ribonucleoside triphosphates (rNTPs) for mitochondrial transcription and is required for the maintenance of mitochondrial DNA (mtDNA) when the import of pyrimidine deoxyribonucleoside triphosphates (dNTPs) is limited from the cytosol is limited (PubMed:37439264). As a monomer, lacks nucleoside diphosphate kinase (NDPK) activity (PubMed:34789336).
Cellular Location	Mitochondrion matrix Mitochondrion inner membrane; Peripheral membrane protein. Mitochondrion. Note=Predominantly localized in mitochondrion matrix, however partially bound to mitochondrion inner membrane (MIM), peripherally bound and facing the matrix space

Tissue Location	Highly expressed in the heart, placenta, skeletal muscles, kidney, prostate, ovary, intestine, and spleen (PubMed:10453732, PubMed:10618642). Also expressed in various cell lines and the expression levels differed among cell lines (PubMed:10618642).

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