

NME3 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP7156a**Specification**

NME3 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q13232](#)**NME3 Antibody (Center) Blocking Peptide - Additional Information**

Gene ID 4832

Other Names

Nucleoside diphosphate kinase 3, NDK 3, NDP kinase 3, DR-nm23, Nucleoside diphosphate kinase C, NDPKC, nm23-H3, NME3

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7156a](/product/products/AP7156a) was selected from the Center region of human NME3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NME3 Antibody (Center) Blocking Peptide - Protein InformationName NME3 ([HGNC:7851](#))**Function**

Catalyzes the phosphorylation of ribonucleosides and deoxyribonucleoside diphosphates, other than ATP, into the corresponding triphosphates with ATP as the major phosphate donor (PubMed: [11277919](http://www.uniprot.org/citations/11277919), PubMed: [30587587](http://www.uniprot.org/citations/30587587)). The ATP gamma phosphate is transferred to the nucleoside diphosphate beta phosphate via a ping-pong mechanism, using a phosphorylated active-site intermediate. Through the catalyzed exchange of gamma-phosphate between di- and triphosphonucleosides participates in regulation of intracellular nucleotide homeostasis (PubMed: [11277919](http://www.uniprot.org/citations/11277919), PubMed: [30587587](http://www.uniprot.org/citations/30587587)). Inhibits granulocyte differentiation (PubMed: [7638209](http://www.uniprot.org/citations/7638209))

target="_blank">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}

NME3 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

NME3 Antibody (Center) Blocking Peptide - Images**NME3 Antibody (Center) Blocking Peptide - Background**

NME3 mRNA is preferentially expressed at early stages of myeloid differentiation of highly purified CD34(+) cells. Its constitutive expression in a myeloid precursor line, which is growth-factor dependent for both proliferation and differentiation, results in inhibition of granulocytic differentiation induced by granulocyte colony-stimulating factor and causes apoptotic cell death. These results appear consistent with a role for the NME3 gene in normal hematopoiesis and raise the possibility that its overexpression contributes to differentiation arrest, a feature of blastic transformation in chronic myelogenous leukemia.

NME3 Antibody (Center) Blocking Peptide - References

Negróni, A., et al., Cell Death Differ. 7(9):843-850 (2000).Martinez, R., et al., Cancer Res. 57(6):1180-1187 (1997).Venturelli, D., et al., Proc. Natl. Acad. Sci. U.S.A. 92(16):7435-7439 (1995).