

Datasheet for ABIN7162056
anti-NME4 antibody (AA 1-187)[Go to Product page](#)

1 Image

Overview

Quantity:	100 µL
Target:	NME4
Binding Specificity:	AA 1-187
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NME4 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), ELISA

Product Details

Immunogen:	Recombinant Human Nucleoside diphosphate kinase, mitochondrial protein (1-187AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Antigen Affinity Purified

Target Details

Target:	NME4
Alternative Name:	NME4 (NME4 Products)
Background:	Background: Major role in the synthesis of nucleoside triphosphates other than ATP. The ATP gamma phosphate is transferred to the NDP beta phosphate via a ping-pong mechanism, using

Target Details

a phosphorylated active-site intermediate. Through the catalyzed exchange of gamma-phosphate between di- and triphosphonucleosides participates in regulation of intracellular nucleotide homeostasis (PubMed:10799505). Binds to anionic phospholipids, predominantly to cardiolipin, the binding inhibits its phosphotransfer activity (PubMed:18635542, PubMed:23150663). Acts as mitochondria-specific NDK, its association with cardiolipin-containing mitochondrial inner membrane is coupled to respiration suggesting that ADP locally regenerated in the mitochondrion innermembrane space by its activity is directly taken up via ANT ADP/ATP translocase into the matrix space to stimulate respiratory ATP regeneration (PubMed:18635542). Proposed to increase GTP-loading on dynamin-related GTPase OPA1 in mitochondria (PubMed:24970086). In vitro can induce liposome cross-linking suggesting that it can cross-link inner and outer membranes to form contact sites, and promotes intermembrane migration of anionic phospholipids. Promotes the redistribution of cardiolipin between the mitochondrial inner membrane and outer membrane which is implicated in pro-apoptotic signaling (PubMed:18635542, PubMed:17028143, PubMed:23150663).

Aliases: metastatic inhibition factor NM23H4 antibody, mitochondrial antibody, NDK antibody, NDKM_HUMAN antibody, NDP kinase antibody, NDP kinase D antibody, NDP kinase, mitochondrial antibody, NDPK D antibody, NDPKD antibody, nm23 H4 antibody, nm23-H4 antibody, NM23D antibody, NM23H4 antibody, Nm23M4 antibody, NME/NM23 nucleoside diphosphate kinase 4 antibody, NME4 antibody, Non metastatic cells 4 protein expressed in antibody, Non metastatic protein 23, homolog 4 antibody, Nucleoside diphosphate kinase D antibody, Nucleoside diphosphate kinase, mitochondrial antibody, Nucleoside diphosphate kinase, mitochondrial antibody

UniProt: [O00746](#)

Pathways: [Nucleotide Phosphorylation](#), [Ribonucleoside Biosynthetic Process](#)

Application Details

Application Notes: Recommended dilution: IHC:1:20-1:200,

Restrictions: For Research Use only

Handling

Format: Liquid

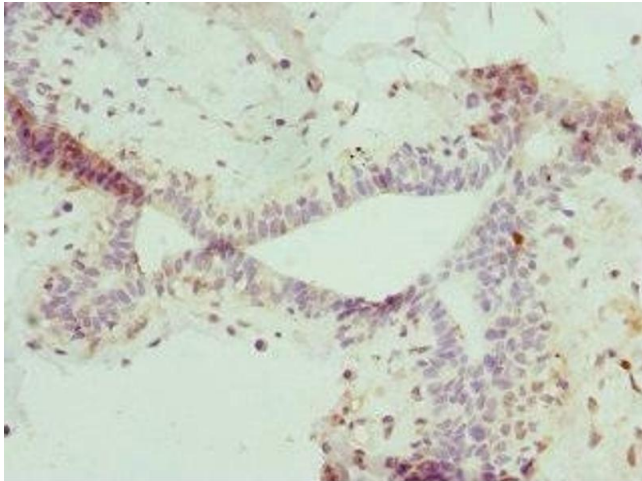
Buffer: PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.

Preservative: Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human breast cancer using ABIN7162056 at dilution of 1:100