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anti-NME1 antibody

Images



Overview

Quantity:	100 μL
Target:	NME1
Reactivity:	Human, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This NME1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Purified His-tagged NME1 protein was used to produced this monoclonal antibody.
Clone:	2C1
Isotype:	lgG2a
Cross-Reactivity:	Human, Rat
Purification:	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

Target Details

Target:	NME1
Alternative Name:	NME1 (NME1 Products)
Background:	Synonyms: NB, AWD, NBS, GAAD, NDKA, NM23, NDPKA, NDPK-A, NM23-H1, Nucleoside

diphosphate kinase A, NDK A, NDP kinase A, Granzyme A-activated DNase, Metastasis inhibition factor nm23, Tumor metastatic process-associated protein, NME1

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 a phosphorylated active-site intermediate. Possesses nucleoside-diphosphate kinase, serine/threonine-specific protein kinase, geranyl and farnesyl pyrophosphate kinase, histidine protein kinase and 3'-5' exonuclease activities. Involved in cell proliferation, differentiation and development, signal transduction, G protein-coupled receptor endocytosis, and gene expression. Required for neural development including neural patterning and cell fate determination. During GZMA-mediated cell death, works in concert with TREX1. NME1 nicks one strand of DNA and TREX1 removes bases from the free 3' end to enhance DNA damage and prevent DNA end reannealing and rapid repair.

Gene ID: 4830

UniProt: P15531

Pathways: Apoptosis, Nucleotide Phosphorylation, Carbohydrate Homeostasis, Ribonucleoside

Biosynthetic Process

Application Details

Application Notes: WB 1:300-5000

IHC-P 1:200-400

Restrictions: For Research Use only

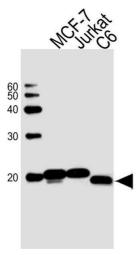
Handling

Format:	Liquid
Concentration:	0.5 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C for 12 months.

Expiry Date:

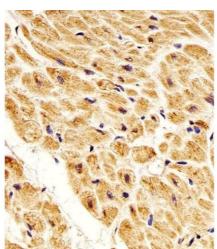
12 months

Images



Western Blotting

Image 1. Sample Tissue/Cells lysates probed with antibodyname Monoclonal Antibody, unconjugated (bsm-51413M) at 1:1000 overnight at 4°C followed by a conjugated secondary antibody for 60 minutes at Room Temperature.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Paraformaldehyde-fixed, paraffin embedded Human heart tissue, Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min, Block endogenous peroxidase by 3% hydrogen peroxide for 15 minutes, Blocking buffer (3% BSA) at room temperature for 30min, Antibody incubation with NME1 (1172CT2.4.1.1) Monoclonal Antibody (bsm-51413M) at 1:25 for 1 hour at 37°C, followed by a conjugated secondary antibody for 20 minutes and DAB staining.