antibodies.com

Datasheet for ABIN3044198 anti-NME2 antibody (C-Term)

1 Validation

l Images



Overview

Quantity:	100 µg
Target:	NME2
Binding Specificity:	AA 137-152, C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NME2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Nucleoside diphosphate kinase B(NME2) detection. Tested with WB, IHC-P, ICC in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human NME2(137-152aa EELVDYKSCAHDWVYE), different from the related mouse and rat sequences by one amino acid.
Sequence:	EELVDYKSCA HDWVYE
lsotype:	lgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Nucleoside diphosphate kinase B(NME2) detection. Tested with WB, IHC-P, ICC in Human,Mouse,Rat.

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Product D)etails
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Gene Name: NME/NM23 nucleoside diphosphate kinase 2

Protein Name: Nucleoside diphosphate kinase B(NDK B)

Purification:

Immunogen affinity purified.

Target Details

Target:	NME2
Alternative Name:	NME2 (NME2 Products)
Background:	NME2(NME/NM23 nucleoside diphosphate kinase 2) also called non-metastatic cells 2,
	protein(NM23B) expressed in, NM23-H2, NM23B or NDPKB, is identical to the beta subunit of
	human erythrocyte NDP kinase. Little to no expression was detected in other mouse tissues
	examined. Using Northern blot analysis, Masse et al.(2002) detected high expression of mouse
	Nme2, which they called nm23-M2, in heart, liver, and kidney, with intermediate expression in
	skeletal muscle. In situ hybridization of 15-day postcoitum mouse embryos showed ubiquitous
	Nme2 expression. The mouse and human NME2 genes contain 5 exons and span about 6.0 kb.
	The NME2 gene is mapped on 17q21.33. Srivastava et al.(2006) concluded that histidine
	phosphorylation regulates KCa3.1 channel activity and that NDPBK is critical to the channel
	activity and the activation of CD4 T cells.
	Synonyms: C myc purine binding transcription factor PUF antibody C myc transcription factor
	antibody C-myc purine-binding transcription factor PUF antibody Histidine protein kinase NDKB
	antibody MGC111212 antibody MGC2212 antibody NDK B antibody NDKB
	antibody NDKB_HUMAN antibody NDP kinase B antibody NDPK B antibody NDPKB
	antibody NM23 H2 antibody nm23-H2 antibody NM23B antibody nme2 antibody Non
	metastatic cells 2, protein(NM23B) expressed in antibody Nucleoside diphosphate kinase B
	antibody Nucleotide diphosphate kinase B antibody PUF antibody
UniProt:	P22392

Application Details

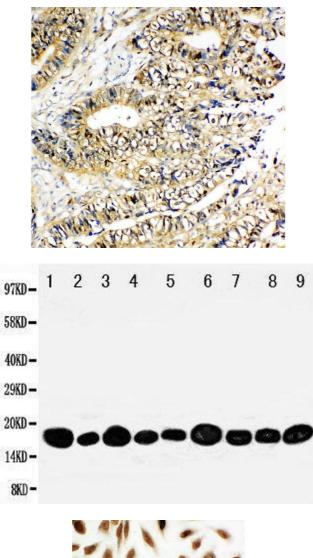
Application Notes:	WB: Concentration: 0.1-0.5 $\mu\text{g}/\text{mL}$, Tested Species: Human, Rat, Predicted Species: Mouse
	IHC-P: Concentration: 0.5-1 μ g/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by
	Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the
	staining of formalin/paraffin sections.
	ICC: Concentration: 0.5-1 µg/mL, Tested Species: Human

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Application Details	
	Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and ICC.
Restrictions:	For Research Use only

Handling

Format:LyophilizedReconstitution:Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.Concentration:500 µg/mLBuffer:Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.Preservative:Thimerosal (Merthiolate), Sodium azidePrecaution of Use:This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.Handling Advice:Avoid repeated freezing and thawing.Storage:4 °C/-20 °CStorage Comment:At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezin and thawing.Expiry Date:12 months		
Concentration:500 μg/mLBuffer:Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.Preservative:Thimerosal (Merthiolate), Sodium azidePrecaution of Use:This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.Handling Advice:Avoid repeated freezing and thawing.Storage:4 °C/-20 °CStorage Comment:At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezin and thawing.	Format:	Lyophilized
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It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezin and thawing.	Storage:	4 °C/-20 °C
Expiry Date: 12 months	Storage Comment:	It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing
	Expiry Date:	12 months

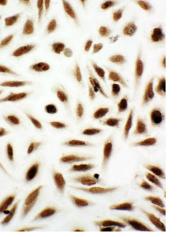


Immunohistochemistry

Image 1. Anti-NME2 antibody, IHC(P) IHC(P): Human Intestinal Cancer Tissue

Western Blotting

Image 2.

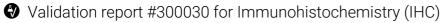


Immunohistochemistry

Image 3. Anti-NME2 antibody, ICC ICC: HELA Cell

Please check the product details page for more images. Overall 4 images are available for ABIN3044198.

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NDEPENDEN	Successfully validated (Immunohistochemistry (IHC))
T T	by Human Protein Atlas
	Report Number: 300030
	Date: Dec 13 2016
VALIDATION THE HUMAN PROTEIN ATLAS	
N° DATE 300030 13/12/16	
Farget:	P18
Method validated:	Immunohistochemistry (IHC)
Positive Control:	tonsil, urinary bladder
Notes:	Passed. ABIN3044198 staining is consistent with staining pattern of other commercial
	P18/NME2 antibodies.
Primary Antibody:	ABIN3044198
Secondary Antibody:	HRP polymer (ThermoFisher Scientific, TL-125-PH)
Protocol:	Sample preparation:
	 Fixation and TMA preparation according to PMID: 22688270.
	$\circ~$ Cut 4 μ m TMA sections using a waterfall microtome (ThermoFisher Scientific, HM355S).
	\circ Dry sections ON at RT and then back them for 12-24h at 50°C.
	 Deparaffinization and rehydration in xylene and graded alcohol series:
	 xylene twice for 3min.
	 100% ethanol for 1min.
	 95% ethanol for 1min.
	\circ 0.3% H ₂ O ₂ in 95% ethanol for 5min to block endogenous peroxidase.
	 70% ethanol for 1min.
	 50% ethanol for 1min.
	\circ distilled H ₂ O for 2min.
	Antigen Retrieval by Heat Induced Epitope Retrieval (HIER):
	 Boil the sections in Lab Vision Citrate buffer pH6.0 (ThermoFisher Scientific, TA-250- PM1X) for 4min at 125°C in a decloaking chamber (Biocare Medical).
	 Allow slides to cool down to 90°C in the decloaking chamber.
	• Immunostaining in a Lab Vision Autostainer 480 (ThermorFisher Scientific) at RT with 300µ
	of reagents for each step:
	 Rinse sections in Lab Vision wash buffer with extra tween added to a final concentration
	0.2% (ThermoFisher Scientific, TA-999-TT and TA-125-TW) wash buffer.
	 Block sections with Lab Vision Ultra V-Block (ThermoFisher Scientific, TA-125-UB) for
	5min.
	 Rinse sections 2x in wash buffer.
	 Incubate sections with primary rabbit anti-P18/NME2 antibody (antibodies-online,

	ABIN3044198) diluted 1:25000 for 30min.
0	Rinse sections 3x in wash buffer.
0	Incubate sections with labeled HRP polymer (ThermoFisher Scientific, TL-125-PH) for
	30min.
0	Rinse sections 2x in wash buffer.
0	Develop in DAB Quanto solution (ThermoFisher Scientific, TL-125-QHDX) for 5min.
0	Rinse sections in distilled H ₂ O.
• V	Vashing, counterstaining, and coverslipping in Autostainer XL (Leica Biosystems, ST5010) at
F	RT:
0	Counterstaining in Mayer's hematoxylin plus (HistoLab, 01820) for 7.5min.
0	Rinse sections in tap water for 5min.
0	Rinse sections in lithium carbonate water diluted 1:5 for 5min.
0	Dehydration in graded ethanol series and Neo-Clear (Merck Millipore, 109843) according to
	the manufacturer recommendations.
0	Automated mounting (Leica Biosystems, CV5030) of coverslip with Pertex (Histolab,
	00871).
• N	/icroscopy:
0	Image acquisition on a Leica Aperio AT2 and Aperio Scanscope AT at 20x magnification.
Experimental Notes: ABI	N3044198 shows staining in most tissues similar to alternative P18/NME2 antibodies.
Det	ermination of the appropriate dilution factor proved difficult.

Image for Validation report #300030



Validation image no. 1 for anti-Nucleoside diphosphate kinase B (NME2) (AA 137-152), (C-Term) antibody (ABIN3044198)

Staining of human tonsil (A.) and urinary bladder (B.) sections in a tissue microarray with ABIN3044198. See the protocol for detailed information.