



Rabbit Anti-Nm23-H2/NME2 antibody

SL1073R

Product Name:	Nm23-H2/NME2
Chinese Name:	Tumour抑制基因NME2抗体
Alias:	nucleoside dIPhosphatase kinase B; C myc purine binding transcription factor PUF; NDK B; NDKB; NDP kinase B; NDPKB; NM23 H2; NM23B; Nucleoside diphosphate kinase B; nm23-M2; NME2; Nucleoside diphosphate kinase alpha, p18-12d; puf; MGC107562; MGC107563; MGC111212; non-metastatic cells 2, protein (NM23B)expressed in; NDKB_HUMAN; C-myc purine-binding transcription factor PUF; Histidine protein kinase NDKB; nm23-H2.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	17kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Nm23:21-100/152
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	NM23 is a heterodimeric protein functioning as a nucleoside diphosphate (NDP) kinase. NME1 and NME2 comprise the 152 amino acid A and B polypeptide chains of the

NM23 enzyme, respectively. NME2 is identical to the beta subunit of human erythrocyte NDP kinase. NDP kinases are involved in the synthesis of nucleoside triphosphates, and NM23 may act in the regulation of signal transduction by complexing with G proteins, causing activation/inactivation of developmental pathways. NEM2 has been identified as a putative tumor suppressor. High expression of mouse NME2 is detected in heart, liver, and kidney, with moderate expression in skeletal muscle, and negligible expression in other mouse tissues examined.

Function:

Major role in the synthesis of nucleoside triphosphates other than ATP. Negatively regulates Rho activity by interacting with AKAP13/LBC. Acts as a transcriptional activator of the MYC gene; binds DNA non-specifically (PubMed:8392752). Exhibits histidine protein kinase activity.

Subunit:

Hexamer of two different chains: A and B (A6, A5B, A4B2, A3B3, A2B4, AB5, B6). Interacts with CAPN8. Interacts with AKAP13.

Subcellular Location:

Cytoplasm. Nucleus. Note=Isoform 2 is mainly cytoplasmic and isoform 1 and isoform 2 are excluded from the nucleolus.

Tissue Specificity:

Ubiquitously expressed.

Similarity:

Belongs to the NDK family.

SWISS:

P22392

Gene ID:

4831

Database links:

[Entrez Gene: 395916](#)Chicken

[Entrez Gene: 480559](#)Dog

[Entrez Gene: 4831](#)Human

[Entrez Gene: 654364](#)Human

[Entrez Gene: 18103](#)Mouse

[Entrez Gene: 83782](#)Rat

[Omim: 156491](#)Human

[SwissProt: Q3T0Q4](#)Cow

[SwissProt: Q50KA8](#)Dog

[SwissProt: P22392](#)Human

[SwissProt: Q01768](#)Mouse

[SwissProt: Q2EN76](#)Pig

[SwissProt: P19804](#)Rat

[Unigene: 463456](#)Human

[Unigene: 1260](#)Mouse

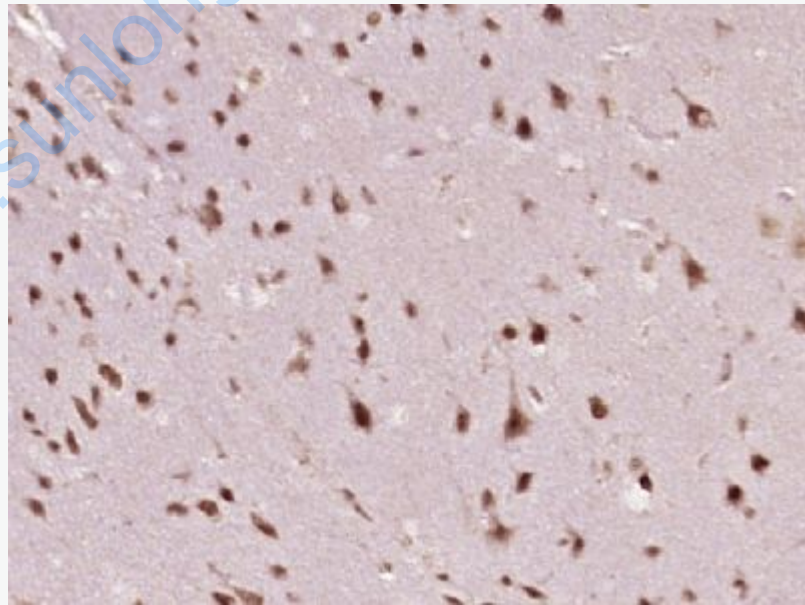
[Unigene: 927](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

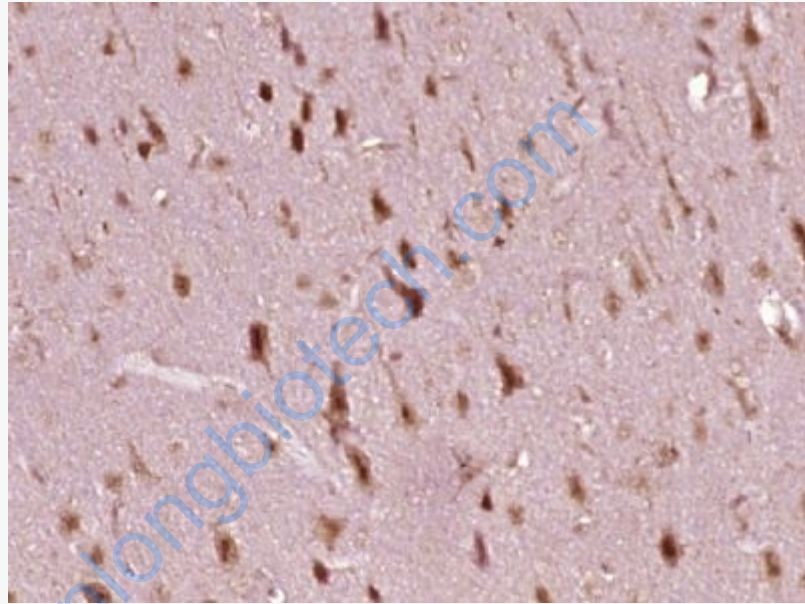
Nm23-H2在高转移性的Tumour中呈现低表达, 提示NM23-H2具有转移抑制的功能。其抑制Tumour转移机制为增强微丝、微管的聚合, 影响细胞的移动, 从而抑制Tumour的侵袭和转移。

Picture:



Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase

by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (NME2) Polyclonal Antibody, Unconjugated (SL1073R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (NME2) Polyclonal Antibody, Unconjugated (SL1073R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.