



## Rabbit Anti-NM23A antibody

SL1066R

<b>Product Name:</b>	NM23A
<b>Chinese Name:</b>	Tumour抑制基因抗体
<b>Alias:</b>	AWD; AWD, drosophila, homolog of; GAAD; Granzyme A activated DNase; Granzyme A-activated DNase; GZMA activated DNase; Metastasis inhibition factor NM23; NB; NBS; NDK A; NDKA; NDKA_HUMAN; NDP kinase A; NDPK-A; NDPKA; NM23; NM23 long variant, included; nm23-H1; NM23-M1; NM23H1B, included; NME/NM23 nucleoside diphosphate kinase 1; Nme1; NME1-NME2 spliced read-through transcript, included; Non-metastatic cells 1, protein (NM23A) expressed in; Nonmetastatic cells 1, protein expressed in; Nonmetastatic protein 23; Nonmetastatic protein 23, homolog 1; Nucleoside diphosphate kinase A; Tumor metastatic process-associated protein.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1µg/Test IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	17kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human Nm23-H1:41-152/152
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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:**

NM23A plays a major role in the synthesis of nucleoside triphosphates other than ATP. 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. Has tumor metastasis-suppressive capacity.

**Function:**

Major role in the synthesis of nucleoside triphosphates other than ATP. 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.

**Subunit:**

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

**Subcellular Location:**

Cytoplasm. Nucleus. Note=Cell-cycle dependent nuclear localization which can be induced by interaction with Epstein-barr viral proteins or by degradation of the SET complex by GzmA.

**Tissue Specificity:**

Isoform 1 is expressed in heart, brain, placenta, lung, liver, skeletal muscle, pancreas, spleen and thymus. Expressed in lung carcinoma cell lines but not in normal lung tissues. Isoform 2 is ubiquitously expressed and its expression is also related to tumor differentiation. Isoform 3 is ubiquitously expressed.

**Similarity:**

Belongs to the NDK family.

**SWISS:**

P15531

**Gene ID:**

4830

**Database links:**

[Entrez Gene: 4830](#) Human

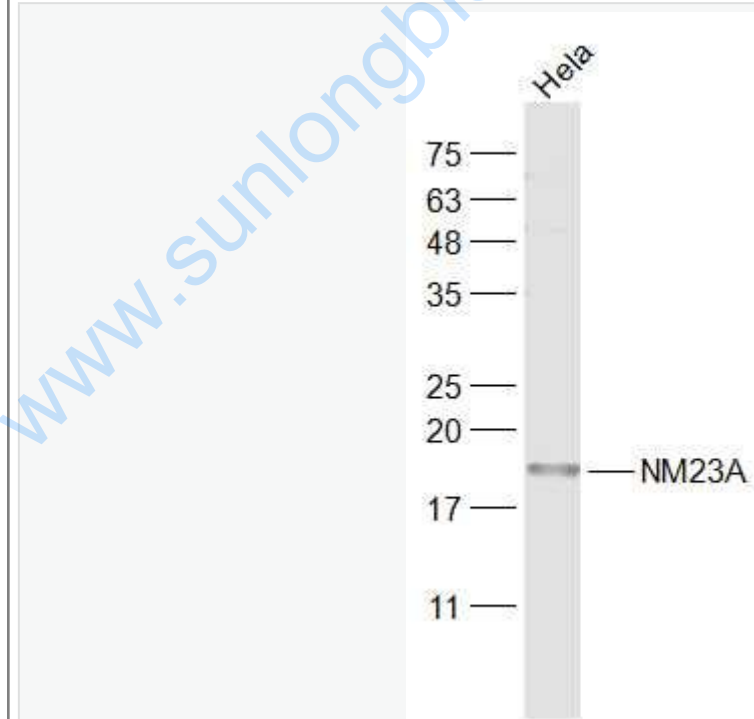
[Entrez Gene: 18102](#) Mouse

[Entrez Gene: 191575](#) Rat  
[Omim: 156490](#) Human  
[SwissProt: P15531](#) Human  
[SwissProt: P15532](#) Mouse  
[SwissProt: Q05982](#) Rat  
[Unigene: 463456](#) Human  
[Unigene: 439702](#) Mouse  
[Unigene: 6236](#) Rat

**Important Note:**

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

**Picture:**



Sample:

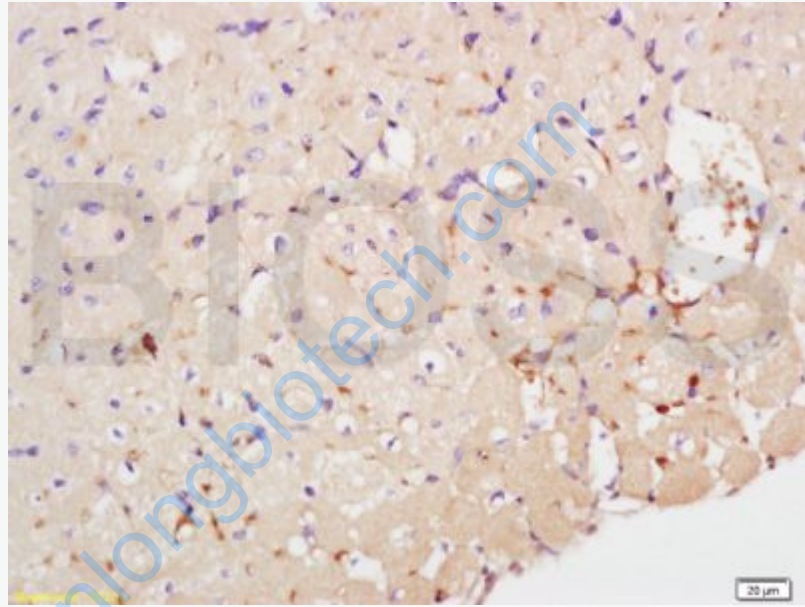
HeLa(Human) Cell Lysate at 30 ug

Primary: Anti-NM23A (SL1066R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 17 kD

Observed band size: 18 kD



Tissue/cell: mouse heart tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block

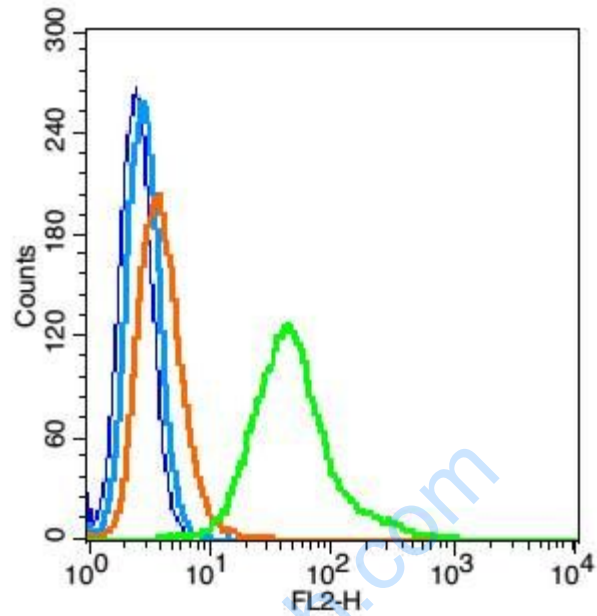
endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer

(normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-NME1/Nm23-H1/NDKA Polyclonal Antibody,

Unconjugated(SL1066R) 1:200, overnight at 4°C, followed by conjugation to the

secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control: RSC96(blue).

Primary Antibody: Rabbit Anti-NME1 antibody(SL1066R), Dilution: 1 $\mu$ g in 100  $\mu$ L  
1X PBS containing 0.5% BSA;

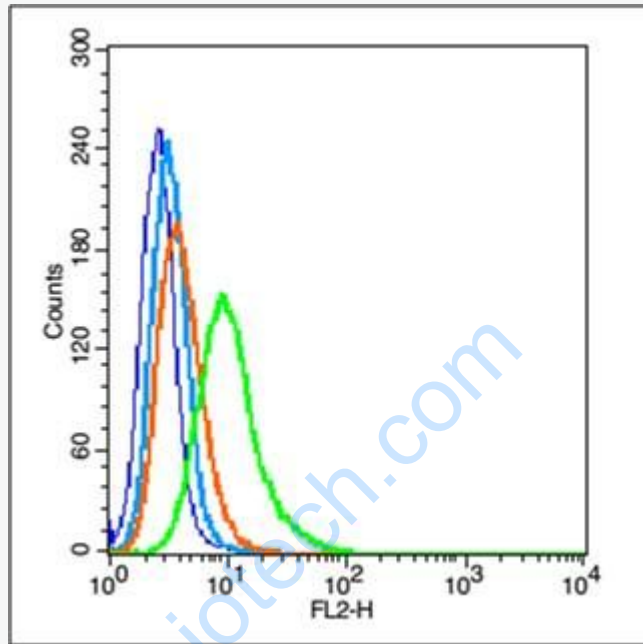
Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions );

Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X  
PBS containing 0.5% BSA.

#### Protocol

The cells were fixed with 2% paraformaldehyde (10 min) , then permeabilized with 90% ice-cold methanol for 30 min on ice. Antibody (SL1066R) were incubated for 30 min on the ice, followed by 1 X PBS containing 0.5% BSA + 1 0% goat serum (15 min) to block non-specific protein-protein interactions. Then the Goat Anti-rabbit IgG/PE antibody was added into the blocking buffer mentioned above to react with the primary antibody of bs-1066R at 1/200 dilution for 30 min on ice.

Acquisition of 20,000 events was performed.



Blank control (blue line): A549 (blue).

Primary Antibody (green line): Rabbit Anti-NME1 antibody (SL1066R)

Dilution:  $1\mu\text{g} / 10^6$  cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE

Dilution:  $1\mu\text{g} / \text{test}$ .

#### Protocol

The cells were fixed with 2% paraformaldehyde (10 min) , then permeabilized with 90% ice-cold methanol for 30 min on ice. Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2%BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at

	room temperature. Acquisition of 20,000 events was performed.
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