

Mouse Anti-NME1/NM23A antibody

SLM-51560M

Product Name	NME1/NM23A
Chinese Name	Tumour 转移抑制基因单克隆抗体
Alias	NDKA_HUMAN; Nucleoside diphosphate kinase A; EC:2.7.4.6; NDK A; NDP kinase A; Granzyme A-activated DNase (GAAD); Metastasis inhibition factor nm23; NM23-H1; Tumor metastatic process-associated protein; NME/NM23 nucleoside diphosphate kinase 1; NDPKA; NM23; NB; AWD; NBS; GAAD; NDKA; NDPK-A;
Research Area	Tumour
Immunogen Species	Mouse
Clonality	Monoclonal
Clone NO.	T3Y2
React Species	Human WB=1:500-1000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	17kDa
Cellular localization	The nucleus cytoplasmic
Form	Liquid
Concentration immunogen	1mg/ml Recombinant human NME1 (His-tagged).
Lsotype	IgG2a
Purification	affinity purified by Protein G
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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This gene (NME1) was identified because of its reduced mRNA transcript levels in highly metastatic cells. Nucleoside diphosphate kinase (NDK) exists as a hexamer composed of 'A' (encoded by this gene) and 'B' (encoded by NME2) isoforms. Mutations in this gene have been identified in aggressive neuroblastomas. Two transcript variants encoding different isoforms have been found for this gene. Co-transcription of this gene and the neighboring downstream gene (NME2) generates naturally-occurring transcripts (NME1-NME2), which encodes a fusion protein comprised of sequence sharing identity with each individual gene product.

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.

Product Detail

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:

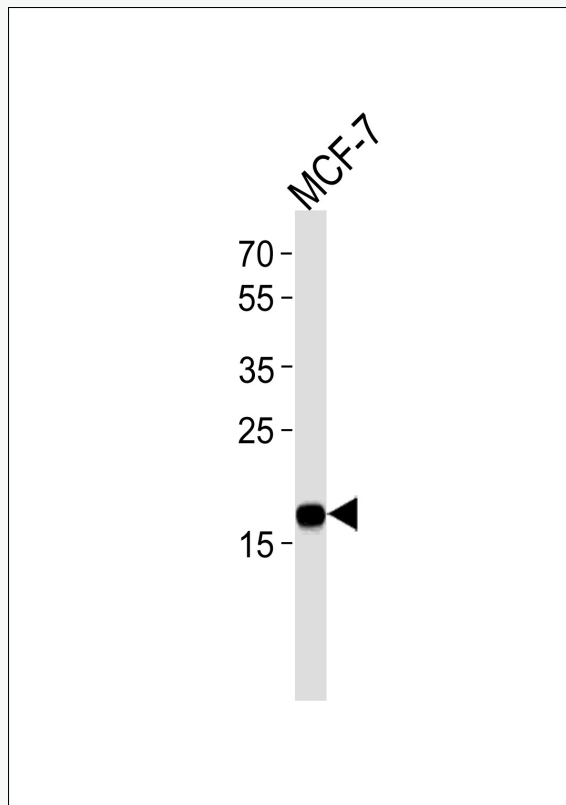
4830

Database links:

[Entrez Gene: 4830](#) Human

[SwissProt: P15531](#) Human

Product Picture



Sample:

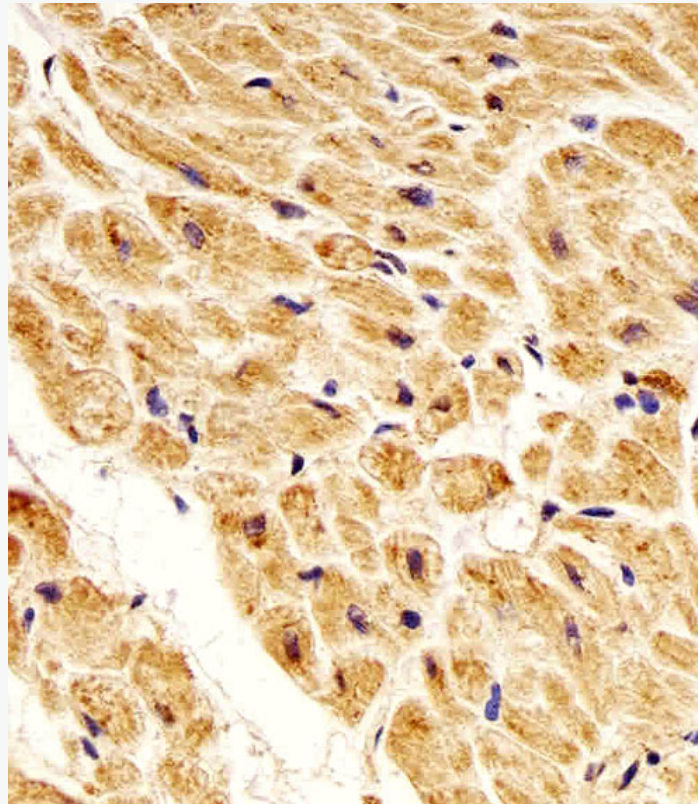
Lane 1: MCF-7 cell lysates

Primary: Anti-Nm23/NME1 (SLM-51560M) at 1/1000 dilution

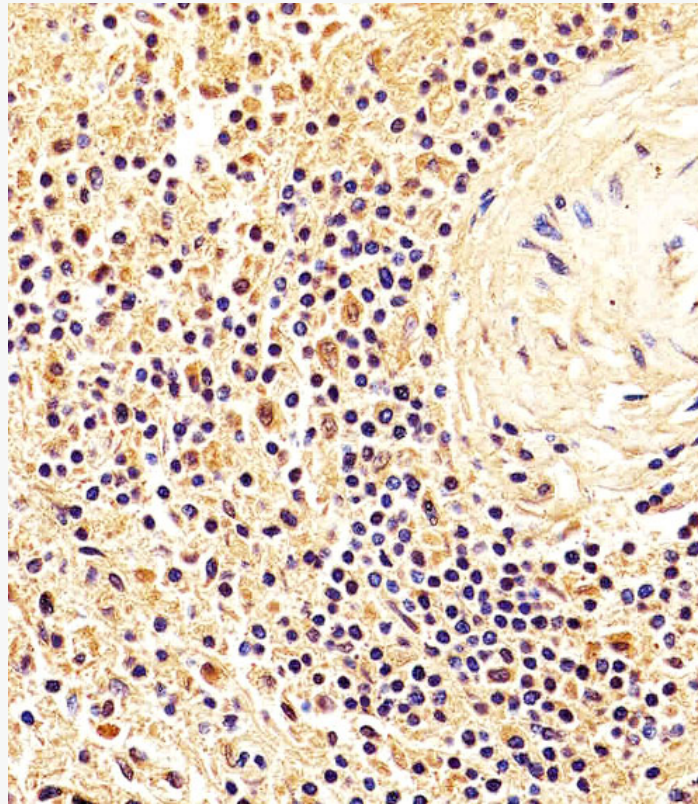
Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 17 kD

Observed band size: 17 kD



Paraformaldehyde-fixed, paraffin embedded (human heart section);
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 Nm23/NME1) Monoclonal Antibody, Unconjugated
(SLM-51560M) at 1:200 overnight at 4°C, followed by operating
according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human spleen section);
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 Nm23/NME1) Monoclonal Antibody, Unconjugated
(SLM-51560M) at 1:200 overnight at 4°C, followed by operating
according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.