

## Product datasheet

### Anti-NM23A antibody [EPR10146] ab171935

**KO VALIDATED** Recombinant RabMAB

[1 References](#) [3 Images](#)

#### Overview

<b>Product name</b>	Anti-NM23A antibody [EPR10146]
<b>Description</b>	Rabbit monoclonal [EPR10146] to NM23A
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB <b>Unsuitable for:</b> Flow Cyt, ICC/IF or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Does not react with:</b> Mouse, Rat
<b>Immunogen</b>	Recombinant fragment within Human NM23A. The exact sequence is proprietary. Database link: <a href="#">P15531</a>
<b>Positive control</b>	WB: HEK293T, HeLa, MCF7 and Jurkat cell lysates.
<b>General notes</b>	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> For more information <a href="#">see here</a> . Our RabMAB <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAB<sup>®</sup> patents</a> .

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal

**Clone number**                      EPR10146

**Isotype**                                IgG

## Applications

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**The Abpromise guarantee**            Our **Abpromise guarantee** covers the use of ab171935 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 17 kDa.

**Application notes**                      Is unsuitable for Flow Cyt,ICC/IF or IP.

## Target

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**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.

**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.

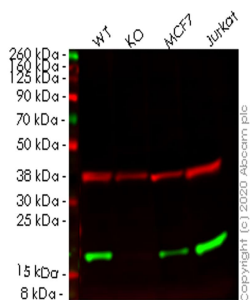
**Sequence similarities**                    Belongs to the NDK family.

**Cellular localization**                    Cytoplasm. Nucleus. 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.

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## Images

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Western blot - Anti-NM23A antibody [EPR10146]  
(ab171935)

**All lanes** : Anti-NM23A antibody [EPR10146] (ab171935) at 1/1000 dilution

**Lane 1** : Wild-type HEK293T cell lysate

**Lane 2** : NME1 knockout HEK293T cell lysate

**Lane 3** : MCF7 cell lysate

**Lane 4** : Jurkat cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

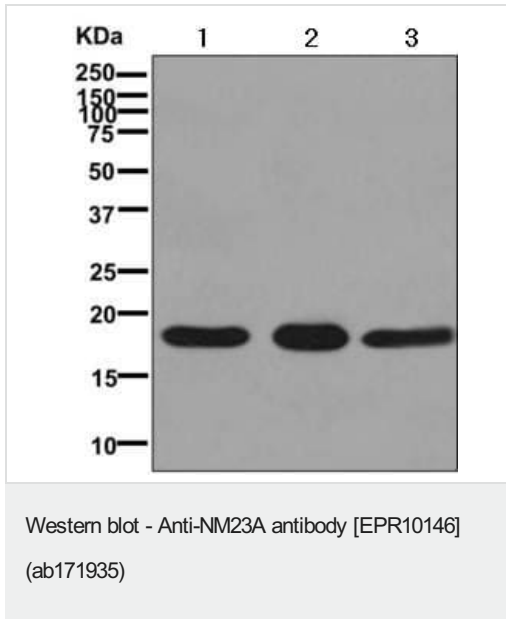
**All lanes** : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

**Predicted band size:** 17 kDa

**Observed band size:** 17 kDa

**Lanes 1-4:** Merged signal (red and green). Green - ab171935 observed at 17 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab171935 Anti-NM23A antibody [EPR10146] was shown to specifically react with NM23A in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266215** (knockout cell lysate **ab258075**) was used. Wild-type and NM23A knockout samples were subjected to SDS-PAGE. ab171935 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



**All lanes** : Anti-NM23A antibody [EPR10146] (ab171935) at 1/1000 dilution

**Lane 1** : HeLa cell line lysate

**Lane 2** : MCF7 cell line lysate

**Lane 3** : Jurkat cell line lysate

Lysates/proteins at 10 µg per lane.





**Secondary**

**All lanes** : Goat ant-rabbit HRP conjugated antibody at 1/500 dilution

Developed using the ECL technique.

**Predicted band size:** 17 kDa

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-NM23A antibody [EPR10146] (ab171935)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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