

## Product datasheet

# Anti-Dystrophia myotonica protein kinase / DMPK antibody ab102804

2 Images

### Overview

<b>Product name</b>	Anti-Dystrophia myotonica protein kinase / DMPK antibody
<b>Description</b>	Rabbit polyclonal to Dystrophia myotonica protein kinase / DMPK
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant full length protein corresponding to Human Dystrophia myotonica protein kinase/ DMPK aa 1-629. Database link: <a href="#">NP_004400.4</a>
<b>Positive control</b>	WB: HeLa and Dystrophia myotonica protein kinase / DMPK transfected 293T cell lysates.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### 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 or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.40 Constituent: 100% PBS
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab102804 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		1/500 - 1/1000. Predicted molecular weight: 70 kDa.

## Target

### Function

Critical to the modulation of cardiac contractility and to the maintenance of proper cardiac conduction activity. Phosphorylates phospholamban.

### Tissue specificity

Most isoforms are expressed in many tissues including heart, skeletal muscle, liver and brain, except for isoform 2 which is only found in the heart and skeletal muscle, and isoform 14 which is only found in the brain, with high levels in the striatum, cerebellar cortex and pons.

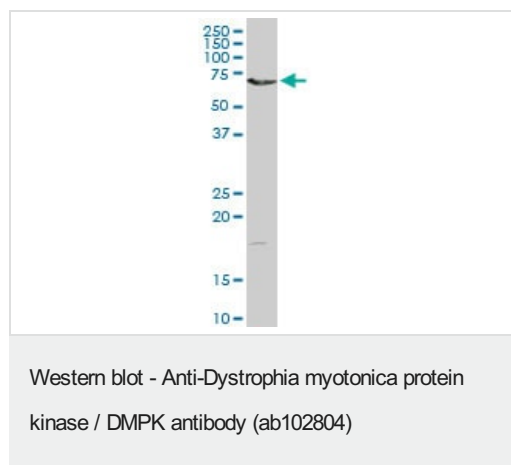
### Involvement in disease

Defects in DMPK are the cause of dystrophia myotonica type 1 (DM1) [MIM:160900]; also known as Steinert disease. A muscular disorder characterized by myotonia, muscle wasting in the distal extremities, cataract, hypogonadism, defective endocrine functions, male baldness and cardiac arrhythmias. Note=The causative mutation is a CTG expansion in the 3'-UTR of the DMPK gene. A length exceeding 50 CTG repeats is pathogenic, while normal individuals have 5 to 37 repeats. Intermediate alleles with 35-49 triplets are not disease-causing but show instability in intergenerational transmissions. Disease severity varies with the number of repeats: mildly affected persons have 50 to 150 repeats, patients with classic DM have 100 to 1,000 repeats, and those with congenital onset can have more than 2,000 repeats.

### Sequence similarities

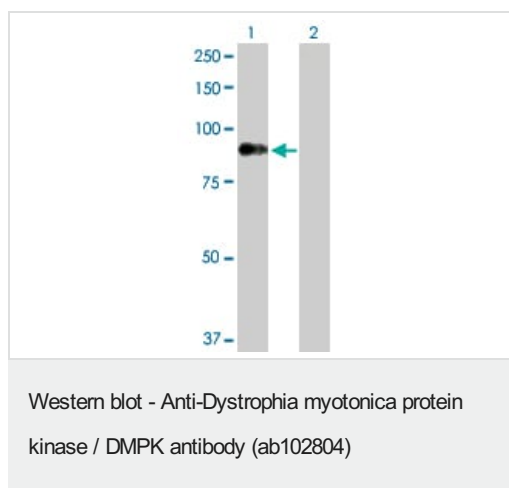
Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. DMPK subfamily. Contains 1 AGC-kinase C-terminal domain.  
Contains 1 protein kinase domain.

## Images



Anti-Dystrophia myotonica protein kinase / DMPK antibody  
(ab102804) at 1/500 dilution + HeLa cell lysate at 50 µg

**Predicted band size:** 70 kDa



**All lanes :** Anti-Dystrophia myotonica protein kinase / DMPK antibody (ab102804) at 1/500 dilution

**Lane 1 :** Dystrophia myotonica protein kinase / DMPK transfected 293T cell lysate

**Lane 2 :** Non-transfected 293T cell line

Lysates/proteins at 25 µg per lane.

**Predicted band size:** 70 kDa

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

#### Our Abpromise to you: Quality guaranteed and expert technical support

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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