


## Product datasheet

### Anti-DTN-A antibody [EPR14112] ab191395

Recombinant RabMAb

6 Images

#### Overview

Product name	Anti-DTN-A antibody [EPR14112]
Description	Rabbit monoclonal [EPR14112] to DTN-A
Host species	Rabbit
Tested applications	<b>Suitable for:</b> WB, IHC-P, ICC/IF, Flow Cyt (Intra)
Species reactivity	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Human fetal brain, Human cerebellum and skeletal muscle lysates; A673 and U87-MG cell lysates; Human thyroid carcinoma tissue; U87-MG and A673 cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <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> <p>For more information <a href="#">see here</a>.</p> <p>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>.</p>

#### Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR14112

## Isotype

IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab191395 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. Detects a band of approximately 84 kDa (predicted molecular weight: 84 kDa).
IHC-P		1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/250.
Flow Cyt (Intra)		1/130. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

## Target

### Function

May be involved in the formation and stability of synapses as well as being involved in the clustering of nicotinic acetylcholine receptors.

### Tissue specificity

Highly expressed in brain, skeletal and cardiac muscles, and expressed at lower levels in lung, liver and pancreas. Isoform 2 is not expressed in cardiac muscle. Isoform 7 and isoform 8 are only expressed in muscle.

### Involvement in disease

Defects in DTNA are the cause of left ventricular non-compaction type 1 (LVNC1) [MIM:604169]. Left ventricular non-compaction is due to an arrest of myocardial morphogenesis. The disorder is characterized by a hypertrophic left ventricle with deep trabeculations and with poor systolic function, with or without associated left ventricular dilation. In some cases, it is associated with other congenital heart anomalies such as ventricular septal defects, pulmonic stenosis and atrial septal defects. The right ventricle may also be affected.

### Sequence similarities

Belongs to the dystrophin family. Dystrobrevin subfamily.  
Contains 1 ZZ-type zinc finger.

### Domain

The coiled coil domain mediates the interaction with dystrophin and utrophin.

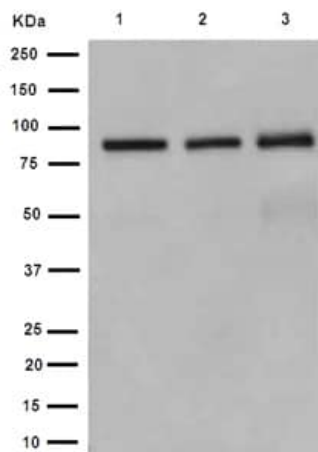
### Post-translational modifications

Phosphorylation of DTN-1 on tyrosine kinase substrate domain present in the C-terminus.

### Cellular localization

Cytoplasm. Cell junction > synapse. Cell membrane. In peripheral nerves, co-localizes with MAGEE1 in the Schwann cell membrane.

## Images



Western blot - Anti-DTN-A antibody [EPR14112] (ab191395)

**All lanes** : Anti-DTN-A antibody [EPR14112] (ab191395) at 1/10000 dilution

**Lane 1** : Human fetal brain lysate

**Lane 2** : Human cerebellum lysate

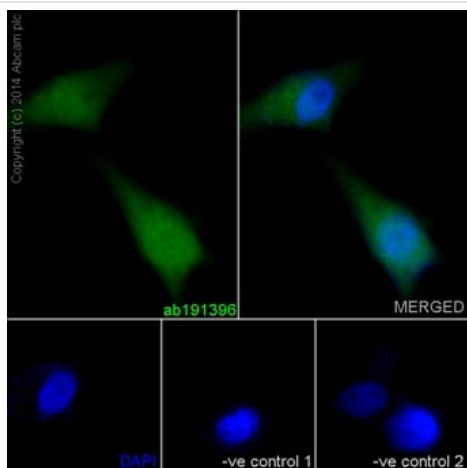
**Lane 3** : Human skeletal muscle lysate

Lysates/proteins at 20 µg per lane.

### Secondary

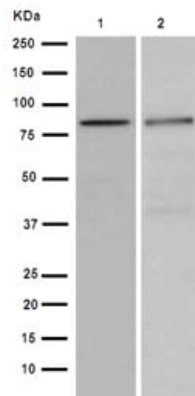
**All lanes** : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

**Predicted band size:** 84 kDa



Immunocytochemistry/ Immunofluorescence - Anti-DTN-A antibody [EPR14112] (ab191395)

Immunofluorescent analysis of U87-MG cells (4% formaldehyde-fixed; 0.1% Triton X-100 permeabilized) labeling DTN-A with ab191395 at 1/250 dilution. A Goat anti rabbit IgG (Alexa Fluor®488) ([ab150077](#)) was used as the secondary at 1/200 dilution. Counter-stained with DAPI (blue). Negative controls: Primary ab concentration (anti-DTNA) is 1/250 dilution, Secondary ab (Goat anti mouse IgG (Alexa Fluor®594)) at 1/400 dilution.



Western blot - Anti-DTN-A antibody [EPR14112] (ab191395)

**All lanes :** Anti-DTN-A antibody [EPR14112] (ab191395) at 1/10000 dilution

**Lane 1 :** A673 cell lysate

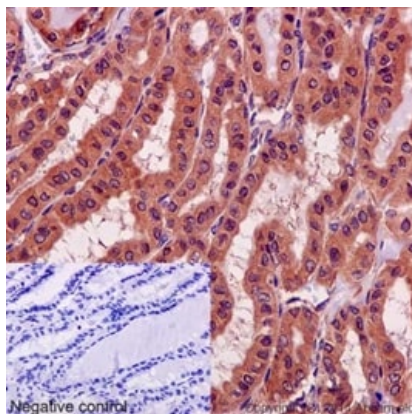
**Lane 2 :** U87-MG cell lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

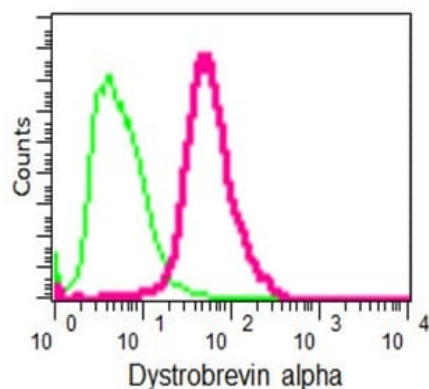
**Predicted band size:** 84 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DTN-A antibody [EPR14112] (ab191395)

Immunohistochemical analysis of paraffin-embedded Human thyroid carcinoma tissue labeling DTN-A with ab191395 at 1/100 dilution followed by pre-diluted HRP Polymer for Rabbit IgG secondary antibody and counter-stained with Hematoxylin. Inset: Negative control: using PBS instead of primary antibody.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-DTN-A antibody [EPR14112] (ab191395)

Intracellular flow cytometric analysis of A673 cells (paraformaldehyde-fixed, 2%) labeling DTN-A with ab191395 at 1/130 dilution (red) or a rabbit IgG (negative) (green), followed by Goat anti rabbit IgG (FITC) secondary at 1/150 dilution.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-DTN-A antibody [EPR14112] (ab191395)

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

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