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DTNA Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12573B

Product Information

Application	IHC-P, IF, WB, E
Primary Accession	Q9Y4J8
Other Accession	NP_116760.2, NP_001383.2
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB31275
Calculated MW	83901
Antigen Region	692-721

Additional Information

Gene ID	1837
Other Names	Dystrobrevin alpha, DTN-A, Alpha-dystrobrevin, Dystrophin-related protein 3, DTNA, DRP3
Target/Specificity	This DTNA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 692-721 amino acids from the C-terminal region of human DTNA.
Dilution	IHC-P~~1:100~500 IF~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	DTNA Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DTNA (HGNC:3057)
Synonyms	DRP3

Function	May be involved in the formation and stability of synapses as well as being involved in the clustering of nicotinic acetylcholine receptors.
Cellular Location	Cytoplasm. Synapse. Cell membrane. Note=In peripheral nerves, colocalizes with MAGEE1 in the Schwann cell membrane.
Tissue Location	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

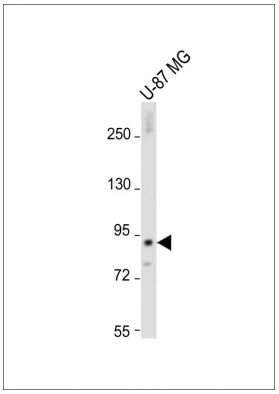
Background

The protein encoded by this gene belongs to the dystrobrevin subfamily of the dystrophin family. This protein is a component of the dystrophin-associated protein complex (DPC), which consists of dystrophin and several integral and peripheral membrane proteins, including dystroglycans, sarcoglycans, syntrophins and alpha- and beta-dystrobrevin. The DPC localizes to the sarcolemma and its disruption is associated with various forms of muscular dystrophy. Mutations in this gene are associated with left ventricular noncompaction with congenital heart defects. Multiple alternatively spliced transcript variants encoding different isoforms have been identified for this gene.

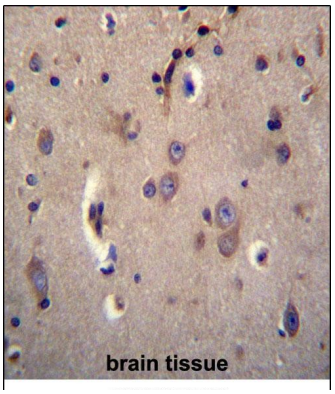
References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Bohm, S.V., et al. BMC Biol. 7, 85 (2009) :
Nakamori, M., et al. Neurology 70(9):677-685(2008)
Lamesch, P., et al. Genomics 89(3):307-315(2007)
Lim, J., et al. Cell 125(4):801-814(2006)

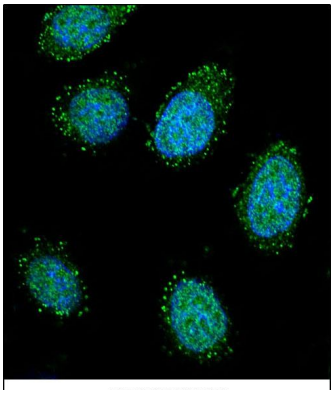
Images



Anti-DTNA Antibody (C-term) at 1:2000 dilution + U-87 MG whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 84 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



DTNA Antibody (C-term) (Cat. #AP12573b)immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of DTNA Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Confocal immunofluorescent analysis of DTNA Antibody (C-term) (Cat#AP12573b) with 293 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).