

Dystrobrevin alpha Rabbit pAb

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Catalog # AP57995

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9D2N4
Reactivity	Human, Mouse
Predicted	Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	84067
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse Dystrobrevin alpha
Epitope Specificity	301-400/743
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Cell projection, growth cone. Note=Colocalizes with synaptic vesicle protein 2 in the central region of the growth cone.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Dystrobrevin alpha belongs to the dystrobrevin subfamily of the dystrophin family. It 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. Dystrobrevin alpha may be involved in the formation and stability of synapses as well as being involved in the clustering of nicotinic acetylcholine receptors. Mutations in Dystrobrevin alpha are associated with left ventricular noncompaction with congenital heart defects.

Additional Information

Gene ID	13527
Other Names	Dystrobrevin alpha, DTN-A, Alpha-dystrobrevin, Dtna, Dtn
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

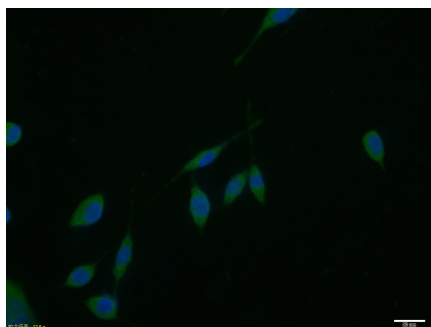
Protein Information

Name	Dtna
Synonyms	Dtn
Function	Involved in synapse maturation and required for normal muscle function.
Cellular Location	Cytoplasm. Synapse. Cell membrane. Note=In peripheral nerves, colocalizes with MAGEE1 in the Schwann cell membrane
Tissue Location	Expressed in skeletal muscle, heart, lung and brain. Sarcolemma and neuromuscular junction in skeletal muscle Isoform 2 is restricted to the neuromuscular junction. Isoforms 5 and 6 are only expressed in muscle.

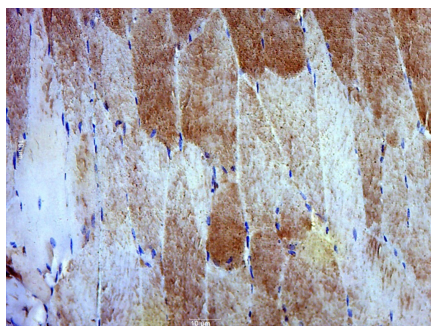
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Images



SH-SY5Y cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (Dystrobrevin alpha) polyclonal Antibody, Unconjugated (AP57995) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



Paraformaldehyde-fixed, paraffin embedded (Mouse skeletal muscle); 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 (Dystrobrevin alpha) Polyclonal Antibody, Unconjugated (AP57995) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.