

Datasheet for ABIN968237 anti-Utrophin antibody (AA 768-874)



[Go to Product page](#)

3 Images

5 Publications

Overview

Quantity:	50 µg
Target:	Utrophin (UTRN)
Binding Specificity:	AA 768-874
Reactivity:	Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Utrophin antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Mouse Utrophin aa. 768-874
Clone:	55-Utrophin
Isotype:	IgG1
Characteristics:	<ol style="list-style-type: none"> 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Source of all serum proteins is from USDA inspected abattoirs located in the United States. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Please refer to us for technical protocols.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	Utrophin (UTRN)
Alternative Name:	Utrophin (UTRN Products)
Background:	<p>Utrophin is an autosomal homolog of dystrophin located on chromosome 6q24. Both encode large cytoskeletal proteins that are members of the spectrin superfamily. Spectrin family proteins are located at the cytoplasmic face and link the intracellular cytoskeleton to the extracellular matrix. Utrophin is nearly identical to dystrophin, specifically in the N-terminal actin binding domain and the C-terminus. Dystrophin is expressed primarily in the brain and muscle, while Utrophin is ubiquitously expressed. In skeletal muscle, Utrophin expression varies depending on the the state of differentiation and innervation of muscle fibers. During development, it localizes in the sarcolemma. Following formation of synaptic contacts, Utrophin is found within the postsynaptic membrane domain of the neuromuscular junction. However, its expression is not limited to postsynaptic compartments. Although dystrophin is absent in patients with Duchenne muscular dystrophy (DMD) and mdx (dystrophin deficient) mice, Utrophin is upregulated. The regulation mechanisms underlying Utrophin expression in muscle have yet to be determined.</p>
Molecular Weight:	400 kDa
Pathways:	Skeletal Muscle Fiber Development

Application Details

Comment:	Related Products: ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20°C.

Publications

Product cited in:

Gramolini, Burton, Tinsley, Ferns, Cartaud, Cartaud, Davies, Lunde, Jasmin: "Muscle and neural isoforms of agrin increase utrophin expression in cultured myotubes via a transcriptional regulatory mechanism." in: **The Journal of biological chemistry**, Vol. 273, Issue 2, pp. 736-43, (1998) ([PubMed](#)).

Deconinck, Rafael, Skinner, Brown, Potter, Metzinger, Watt, Dickson, Tinsley, Davies: "Utrophin-dystrophin-deficient mice as a model for Duchenne muscular dystrophy." in: **Cell**, Vol. 90, Issue 4, pp. 717-27, (1997) ([PubMed](#)).

Grady, Teng, Nichol, Cunningham, Wilkinson, Sanes: "Skeletal and cardiac myopathies in mice lacking utrophin and dystrophin: a model for Duchenne muscular dystrophy." in: **Cell**, Vol. 90, Issue 4, pp. 729-38, (1997) ([PubMed](#)).

Guo, Nichol, Merlie: "Cloning and expression of full length mouse utrophin: the differential association of utrophin and dystrophin with AChR clusters." in: **FEBS letters**, Vol. 398, Issue 2-3, pp. 259-64, (1997) ([PubMed](#)).

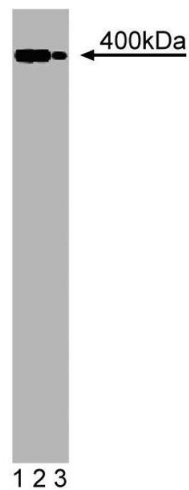
Tinsley, Blake, Roche, Fairbrother, Riss, Byth, Knight, Kendrick-Jones, Suthers, Love: "Primary structure of dystrophin-related protein." in: **Nature**, Vol. 360, Issue 6404, pp. 591-3, (1993) ([PubMed](#)).

Images



Western Blotting

Image 1.



Western Blotting

Image 2. Western blot analysis of Utrophin on a mouse neonate lysate. Lane 1: 1: 250, lane 2: 1: 500, lane 3: 1:1000 dilution of the mouse anti-mouse Utrophin antibody.

Image 3.

