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α -Syntrophin (m): 293T Lysate: sc-126356

BACKGROUND

The syntrophins are PDZ-domain-containing proteins that facilitate the recruitment of signaling proteins such as NOS1 to the dystrophin-associated protein complex. The syntrophin family are structurally related proteins that contain multiple protein interaction motifs. Syntrophins associate directly with dystrophin, the product of the Duchenne muscular dystrophy locus, and its homologs. α -Syntrophin has an important role in synapse formation and in the organization of utrophin, acetylcholine receptor and acetylcholinesterase at the neuromuscular synapse. Specifically, NOS1 binds to α -Syntrophin at muscle sarcolemma. β 2-Syntrophin is a modular adapter. In muscle cells, β 2-Syntrophin interacts with members of the dystrophin family, which includes utrophin.

REFERENCES

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- Adams, M.E., Kramarcy, N., Krall, S.P., Rossi, S.G., Rotundo, R.L., Sealock, R. and Froehner, S.C. 2000. Absence of α -Syntrophin leads to structurally aberrant neuromuscular synapses deficient in utrophin. *J. Cell Biol.* 150: 1385-1398.
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- Rocco, P., Vainzof, M., Froehner, S.C., Peters, M.F., Marie, S.K., Passos-Bueno, M.R. and Zatz, M. 2000. Brazilian family with pure autosomal dominant spastic paraplegia maps to 8q: analysis of muscle β 1-Syntrophin. *Am. J. Med. Genet.* 92: 122-127.

CHROMOSOMAL LOCATION

Genetic locus: Snta1 (mouse) mapping to 2 H1.

PRODUCT

α -Syntrophin (m): 293T Lysate represents a lysate of mouse α -Syntrophin transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

APPLICATIONS

α -Syntrophin (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive α -Syntrophin antibodies. Recommended use: 10-20 μ l per lane.

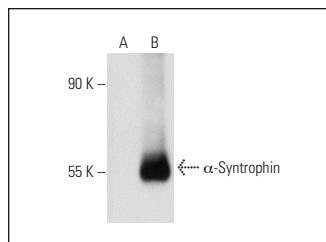
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

α -Syntrophin (D-7): sc-166634 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse α -Syntrophin expression in α -Syntrophin transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

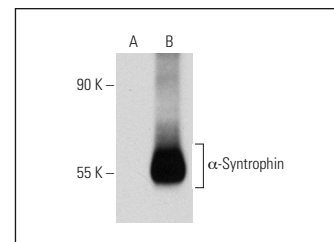
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



α -Syntrophin (D-7): sc-166634. Western blot analysis of α -Syntrophin expression in non-transfected: sc-117752 (A) and mouse α -Syntrophin transfected: sc-126356 (B) 293T whole cell lysates.



α -Syntrophin (F-1): sc-166635. Western blot analysis of α -Syntrophin expression in non-transfected: sc-117752 (A) and mouse α -Syntrophin transfected: sc-126356 (B) 293T whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.