

α -Syntrophin (h): 293T Lysate: sc-113719

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 Syntrophins are a family of 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 and in muscle cells interacts with members of the dystrophin family, which includes utrophin.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SNTA1 (human) mapping to 20q11.21.

PRODUCT

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

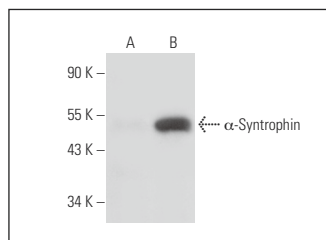
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

α -Syntrophin (C-7): sc-166207 is recommended as a positive control antibody for Western Blot analysis of enhanced human 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 (C-7): sc-166207. Western blot analysis of α -Syntrophin expression in non-transfected: sc-117752 (A) and human α -Syntrophin transfected: sc-113719 (B) 293T whole cell lysates.

RESEARCH USE

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