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### Zuschläge

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- Expressversand

### SZABO-SCANDIC HandelsgmbH

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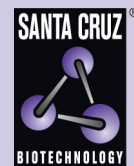
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# $\alpha$ -Syntrophin (h3): 293T Lysate: sc-159449

## 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.  $\alpha$ -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  $\alpha$ -Syntrophin at muscle sarcolemma.  $\beta$ 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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2. Abdelmoity, A., Padre, R.C., Burzynski, K.E., Stull, J.T. and Lau, K.S. 2000. Neuronal nitric oxide synthase localizes through multiple structural motifs to the sarcolemma in mouse myotubes. *FEBS Lett.* 482: 65-70.
3. Adams, M.E., Kramarcy, N., Krall, S.P., Rossi, S.G., Rotundo, R.L., Sealock, R. and Froehner, S.C. 2000. Absence of  $\alpha$ -Syntrophin leads to structurally aberrant neuromuscular synapses deficient in utrophin. *J. Cell Biol.* 150: 1385-1398.
4. Ort, T., Maksimova, E., Dirx, R., Kachinsky, A.M., Berghs, S., Froehner, S.C. and Solimena, M. 2000. The receptor tyrosine phosphatase-like protein ICA512 binds the PDZ domains of  $\beta$ 2-Syntrophin and nNOS in pancreatic  $\beta$ -cells. *Eur. J. Cell Biol.* 79: 621-630.
5. 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  $\beta$ 1-Syntrophin. *Am. J. Med. Genet.* 92: 122-127.

## CHROMOSOMAL LOCATION

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

## PRODUCT

$\alpha$ -Syntrophin (h3): 293T Lysate represents a lysate of human  $\alpha$ -Syntrophin transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ 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](http://www.scbt.com) for detailed protocols and support products.

## APPLICATIONS

$\alpha$ -Syntrophin (h3): 293T Lysate is suitable as a Western Blotting positive control for human reactive  $\alpha$ -Syntrophin antibodies. Recommended use: 10-20  $\mu$ l per lane.

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

## RESEARCH USE

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