10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Goat Anti-Syntrophin (alpha 1) Antibody

Peptide-affinity purified goat antibody
Catalog # AF2059a

Specification

Goat Anti-Syntrophin (alpha 1) Antibody - Product Information

Application	**WB**
Primary Accession	Q13424
Other Accession	NP_003089, 6640, 20648 (mouse)
Reactivity	**Human, Mouse, Rat**
Predicted	**Pig, Dog, Cow**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**53895**

Goat Anti-Syntrophin (alpha 1) Antibody - Additional Information

Gene ID 6640

Other Names
Alpha-1-syntrophin, 59 kDa dystrophin-associated protein A1 acidic component 1, Pro-TGF-alpha cytoplasmic domain-interacting protein 1, TACIP1, Syntrophin-1, SNTA1, SNT1

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-Syntrophin (alpha 1) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-Syntrophin (alpha 1) Antibody - Protein Information

Name SNTA1

Synonyms SNT1

Function
Adapter protein that binds to and probably organizes the subcellular localization of a variety of membrane proteins. May link various receptors to the actin cytoskeleton and the extracellular matrix via the dystrophin glycoprotein complex. Plays an important role in synapse formation and

in the organization of UTRN and acetylcholine receptors at the neuromuscular synapse. Binds to phosphatidylinositol 4,5-bisphosphate (By similarity).

Cellular Location
Cell membrane, sarcolemma; Peripheral membrane protein; Cytoplasmic side. Cell junction. Cytoplasm, cytoskeleton. Note=In skeletal muscle, it localizes at the cytoplasmic side of the sarcolemmal membrane and at neuromuscular junctions

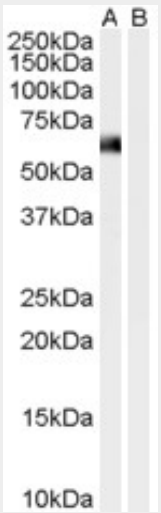
Tissue Location
High expression in skeletal muscle and heart. Low expression in brain, pancreas, liver, kidney and lung. Not detected in placenta

Goat Anti-Syntrophin (alpha 1) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-Syntrophin (alpha 1) Antibody - Images



AF2059a (0.01 µg/ml) staining of Human Muscle lysate (35 µg protein in RIPA buffer) with (B) and without (A) blocking with the immunising peptide. Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-Syntrophin (alpha 1) Antibody - Background

Dystrophin is a large, rod-like cytoskeletal protein found at the inner surface of muscle fibers. Dystrophin is missing in Duchenne Muscular Dystrophy patients and is present in reduced amounts in Becker Muscular Dystrophy patients. The protein encoded by this gene is a peripheral membrane protein found associated with dystrophin and dystrophin-related proteins. This gene is a member of the syntrophin gene family, which contains at least two other structurally-related genes.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Goat Anti-Syntrophin (alpha 1) Antibody - References

Alpha1-syntrophin mutations identified in sudden infant death syndrome cause an increase in late cardiac sodium current. Cheng J, et al. Circ Arrhythm Electrophysiol, 2009 Dec. PMID 20009079.
alpha-1-syntrophin mutation and the long-QT syndrome: a disease of sodium channel disruption. Wu G, et al. Circ Arrhythm Electrophysiol, 2008 Aug. PMID 19684871.
Syntrophin mutation associated with long QT syndrome through activation of the nNOS-SCN5A macromolecular complex. Ueda K, et al. Proc Natl Acad Sci U S A, 2008 Jul 8. PMID 18591664.
Global, in vivo, and site-specific phosphorylation dynamics in signaling networks. Olsen JV, et al. Cell, 2006 Nov 3. PMID 17081983.
Uncovering quantitative protein interaction networks for mouse PDZ domains using protein microarrays. Stiffler MA, et al. J Am Chem Soc, 2006 May 3. PMID 16637659.