

Goat Anti-Syntrophin gamma 2 Antibody
Peptide-affinity purified goat antibody
Catalog # AF2060a**Specification**

Goat Anti-Syntrophin gamma 2 Antibody - Product Information

Application	WB
Primary Accession	O9NY99
Other Accession	NP_061841 , 54221
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	60217

Goat Anti-Syntrophin gamma 2 Antibody - Additional Information**Gene ID** 54221**Other Names**

Gamma-2-syntrophin, G2SYN, Syntrophin-5, SYN5, SNTG2

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 gamma 2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-Syntrophin gamma 2 Antibody - Protein Information**Name** SNTG2**Function**

Adapter protein that binds to and probably organizes the subcellular localization of a variety of proteins. May link various receptors to the actin cytoskeleton and the dystrophin glycoprotein complex (By similarity).

Cellular Location

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

membrane

Tissue Location

Widely expressed. Strong expression in brain and testis. In CNS, it is expressed in the perikaryon and proximal portion of the neuronal processes. Strong expression in the hippocampus, neuron-rich dentate granule cells, and pyramidal cell layers. Highly expressed in neurons of the cerebral cortex. Also expressed in the cerebellar cortex, deep cerebellar nuclei, thalamus, and basal ganglia

Goat Anti-Syntrophin gamma 2 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 Cytometry](#)
- [Cell Culture](#)

Goat Anti-Syntrophin gamma 2 Antibody - Images



AF2060a (0.3 µg/ml) staining of Human Duodenum lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-Syntrophin gamma 2 Antibody - Background

This gene encodes a protein belonging to the syntrophin family. Syntrophins are cytoplasmic peripheral membrane proteins that bind to components of mechanosensitive sodium channels and the extreme carboxy-terminal domain of dystrophin and dystrophin-related proteins. The PDZ domain of this protein product interacts with a protein component of a mechanosensitive sodium channel that affects channel gating. Absence or reduction of this protein product has been associated with Duchenne muscular dystrophy. There is evidence of alternative splicing yet the full-length nature of these variants has not been described.

Goat Anti-Syntrophin gamma 2 Antibody - References

Neuroligins 3 and 4X interact with syntrophin-gamma2, and the interactions are affected by autism-related mutations. Yamakawa H, et al. Biochem Biophys Res Commun, 2007 Mar 30. PMID

17292328.

Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932.

Syntrophin gamma 2 regulates SCN5A gating by a PDZ domain-mediated interaction. Ou Y, et al. J Biol Chem, 2003 Jan 17. PMID 12429735.

Creation of genome-wide protein expression libraries using random activation of gene expression. Harrington JJ, et al. Nat Biotechnol, 2001 May. PMID 11329013.

Gamma1- and gamma2-syntrophins, two novel dystrophin-binding proteins localized in neuronal cells. Piluso G, et al. J Biol Chem, 2000 May 26. PMID 10747910.