

Rabbit Syntrophin alpha 1 Polyclonal Antibody | anti-SNTA1 antibody

Syntrophin alpha 1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31187	Rabbit	Human, Mouse, Rat Predicted Reactivity: Rabbit(88%), Dog(88%)	Immunofluorescence, Immunocytochemistry, ELISA

PRODUCT SYNONYMS

Syntrophin alpha 1; Polyclonal Antibody; Syntrophin alpha 1 Antibody; 59 kDa dystrophin-associated protein A1 acidic component 1; Acidic alpha 1 syntrophin; Alpha 1 syntrophin; Alpha-1-syntrophin; dJ1187J4.5; Dystrophin associated protein A1 59kDa acidic component; LQT12; OTTHUMP00000030650; Pro-TGF-alpha cytoplasmic domain-interacting protein 1; SNT1; Snta1; SNTA1_HUMAN; Syntrophin 1; Syntrophin-1; TACIP1; anti-SNTA1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Rabbit(88%), Dog(88%)
Clonality	Polyclonal
Isotype	IgG
Specificity	Syntrophin alpha 1 Antibody detects endogenous levels of total Syntrophin alpha 1.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	505
Applicable Applications for anti-SNTA1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA
Application Notes	IF: 1:100-1:500 ICC: 1:100-1:500 WB: 1:500-1:2000 IHC: 1:50-1:200 ELISA(peptide): 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human Syntrophin alpha 1, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



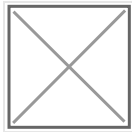
IF (Immunofluorescence)

AAA31187 staining Hela cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25Â°C. Samples were then incubated with primary Ab(AAA31187 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37Â°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



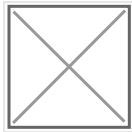
IHC (Immunohistochemistry-Paraffin)

AAA31187 at 1/100 staining Human colorectal cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)

AAA31187 at 1/100 staining Mouse heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)

AAA31187 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)

AAA31187 at 1/100 staining Mouse muscle tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)

AAA31187 at 1/100 staining Rat heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-SNTA1 antibody

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).

Post Translational Modifications: Phosphorylated by CaM-kinase II. Phosphorylation may inhibit the interaction with DMD (By similarity).

Subcellular 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 Specificity: High expression in skeletal muscle and heart. Low expression in brain, pancreas, liver, kidney and lung. Not detected in placenta.

Subunit Structure: Monomer and homodimer. Interacts with the other members of the syntrophin family SNTB1 and SNTB2; SGCG and SGCA of the dystrophin glycoprotein complex; NOS1; GRB2; the sodium channel proteins SCN4A and SCN5A; F-actin and calmodulin (By similarity). Interacts with dystrophin protein DMD and related proteins DTNA and UTRN and with MAPK12, TGFA and GA. Interacts with MYOC; regulates muscle hypertrophy (By similarity).

Similarity: The PH 1 domain mediates the oligomerization in a calcium dependent manner, and the association with the phosphatidylinositol 4,5-bisphosphate. The PDZ domain binds to the last three or four amino acids of ion channels and receptor proteins. The association with dystrophin or related proteins probably leaves the PDZ domain available to recruit proteins to the membrane (By similarity). The SU domain binds calmodulin in a calcium-dependent manner. Belongs to the syntrophin family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507137
NCBI GeneID	6640
NCBI Accession #	NP_003089.1
NCBI GenBank Nucleotide #	NP_003089.1
UniProt Accession #	Q13424
Molecular Weight	Observed Molecular Weight: (Observed)53kD. Predicted Molecular Weight: (Calculated)54kDa.
NCBI Official Full Name	alpha-1-syntrophin
NCBI Official Synonym Full Names	syntrophin alpha 1
NCBI Official Symbol	SNTA1
NCBI Official Synonym Symbols	SNT1; LQT12; TACIP1; dJ1187J4.5
NCBI Protein Information	alpha-1-syntrophin
UniProt Protein Name	Alpha-1-syntrophin
UniProt Gene Name	SNTA1
UniProt Synonym Gene Names	SNT1; TACIP1
UniProt Entry Name	SNTA1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/syntrophin-alpha-1-antibody-immunofluorescence-immunocytochemistry-elisa/31187>