

For Research Use Only

# SNTA1 Polyclonal antibody

Catalog Number: 13131-1-AP

1 Publications



## Basic Information

### Catalog Number:

13131-1-AP

### Size:

150ul, Concentration: 200 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3820

### GenBank Accession Number:

BC026215

### GeneID (NCBI):

6640

### UNIPROT ID:

Q13424

### Full Name:

syntrophin, alpha 1 (dystrophin-associated protein A1, 59kDa, acidic component)

### Calculated MW:

505 aa, 54 kDa

### Observed MW:

54 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:3000

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, rat

### Cited Species:

mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : mouse heart tissue, rat heart tissue

IHC : mouse heart tissue,

## Background Information

SNTA1, also known as Syntrophin 1, SNT1, is cytoplasmic peripheral membrane scaffold proteins that are components of the dystrophin-associated protein complex. SNTA1 is a signal-transducing adaptor protein and serves as a scaffold for various signaling molecules. Alpha-1 syntrophin contains a PDZ domain, two Pleckstrin homology domains, and a 'syntrophin unique' domain. SNTA1 is the high expression in skeletal muscle and heart (PMID: 8576247, 8612778). The PDZ domain of SNTA1 has been reported to bind to the C-terminal domain of murine cardiac voltage-gated sodium channels (SkM2) causing altering ion channel activity leading to Long QT syndrome (PMID 19684871, 19862833).

## Notable Publications

Author	Pubmed ID	Journal	Application
Wei Zhang	39387251	Adv Sci (Weinh)	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

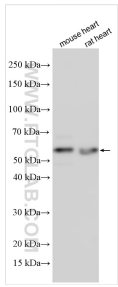
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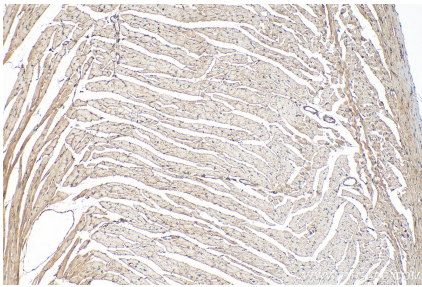
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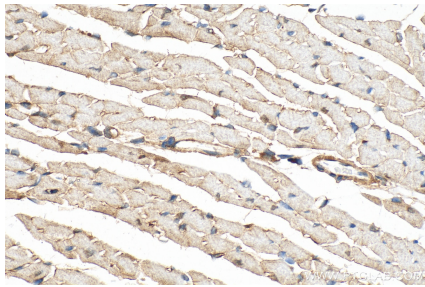
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 13131-1-AP (SNTA1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 13131-1-AP (SNTA1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 13131-1-AP (SNTA1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).