

For Research Use Only

# Alpha Sarcoglycan Monoclonal antibody

Catalog Number: 67078-1-Ig



## Basic Information

<b>Catalog Number:</b> 67078-1-Ig	<b>GenBank Accession Number:</b> BC025702	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul, Concentration: 2200 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 6442	<b>CloneNo.:</b> 2B10H7
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q16586	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:500-1:2000 IF-P 1:200-1:800
<b>Isotype:</b> IgG2a	<b>Full Name:</b> sarcoglycan, alpha (50kDa dystrophin-associated glycoprotein)	
<b>Immunogen Catalog Number:</b> AG28800	<b>Calculated MW:</b> 387 aa, 43 kDa	
	<b>Observed MW:</b> 50 kDa	

## Applications

### Tested Applications:

WB, IHC, IF-P, ELISA

### Species Specificity:

human, mouse, rat, pig

**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**: human skeletal muscle tissue, human heart tissue, pig heart tissue, rat skeletal muscle tissue, pig skeletal muscle tissue, rat heart tissue, mouse skeletal muscle tissue

**IHC**: mouse skeletal muscle tissue, human liver tissue, mouse heart tissue, mouse tongue tissue, rat heart tissue, rat skeletal muscle tissue

**IF-P**: mouse heart tissue, mouse skeletal muscle tissue

## Background Information

Alpha-sarcoglycan is a member of the sarcoglycan-sarcospan complex (SG-SSPN), which is constituted by  $\alpha/\epsilon$ -,  $\beta$ -,  $\gamma$ -, and  $\delta$ -SGs as well as SSPN. Alpha-sarcoglycan gene expression is exclusive of striated muscle and is finely regulated during myogenic differentiation, where the amount of alpha-sarcoglycan transcript is selectively increased after differentiation to myotubes (MTs). Alpha sarcoglycan's disruption causes limb-girdle muscular dystrophy.

## 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**

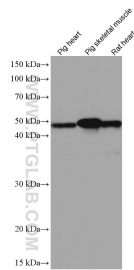
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

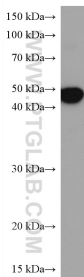
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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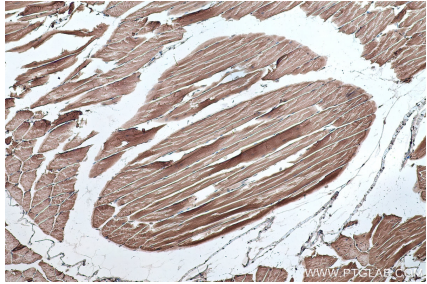
Selected Validation Data



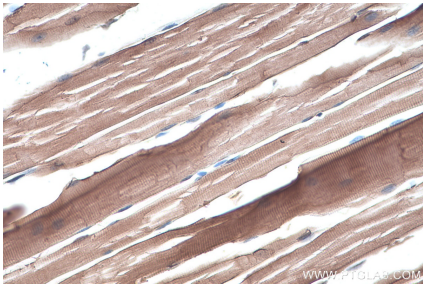
Various lysates were subjected to SDS PAGE followed by western blot with 67078-1-Ig (Alpha sarcoglycan antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



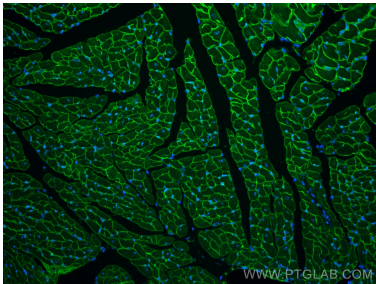
human skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 67078-1-Ig (Alpha sarcoglycan antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



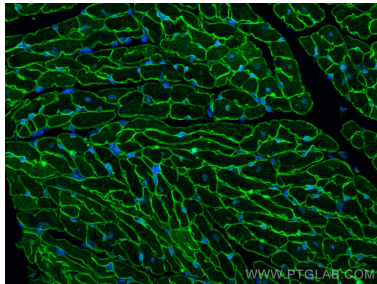
Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 67078-1-Ig (Alpha Sarcoglycan antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 67078-1-Ig (Alpha Sarcoglycan antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using Alpha Sarcoglycan antibody (67078-1-Ig, Clone: 2B10H7 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using Alpha Sarcoglycan antibody (67078-1-Ig, Clone: 2B10H7 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 67078-1-Ig (Alpha Sarcoglycan antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).