

## Alpha Sarcoglycan Monoclonal antibody

Catalog Number: 67078-1-Ig

## Basic Information

Catalog Number:

67078-1-Ig

Size:

2200 ug/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG28800

GenBank Accession Number:

BC025702

GeneID (NCBI):

6442

UNIPROT ID:

Q16586

Full Name:

sarcoglycan, alpha (50kDa  
dystrophin-associated glycoprotein)

Calculated MW:

387 aa, 43 kDa

Observed MW:

50 kDa

Purification Method:

Protein A purification

CloneNo.:

2B10H7

Recommended Dilutions:

WB 1:2000-1:10000

IHC 1:500-1:2000

IF-P 1:200-1:800

## 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  $\alpha$  / -,  $\beta$  -,  $\gamma$  -, 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

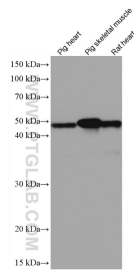
For technical support and original validation data for this product please contact:

T: 4006900926

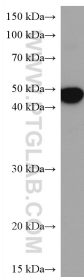
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

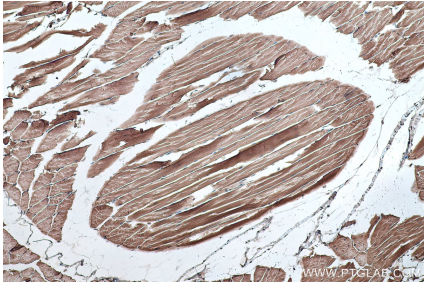
Selected Validation Data



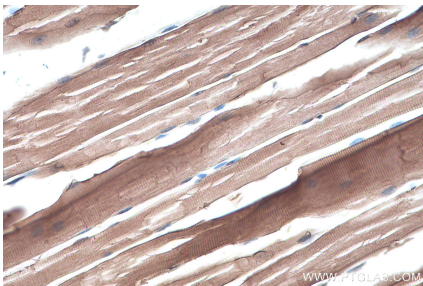
Various lysates were subjected to SDS PAGE followed by western blot with 67078-1-Ig (Alpha sarcoglycan antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



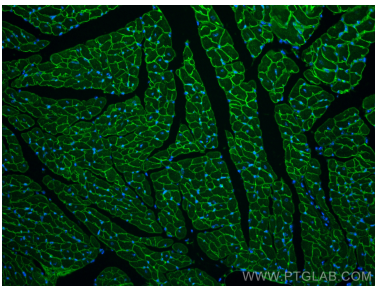
human skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 67078-1-Ig (Alpha sarcoglycan antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



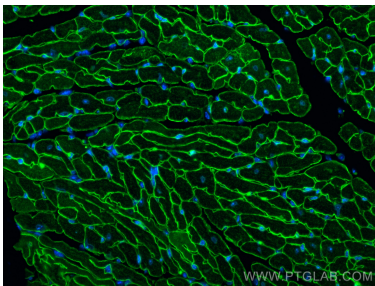
Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 67078-1-Ig (Alpha Sarcoglycan antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).