For Research Use Only

Alpha Sarcoglycan Monoclonal antibody

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Antibodies | ELISA kits | Proteins
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Catalog Number:67078-1-Ig

Basic Information

Catalog Number:
67078-1-Ig

Size:
2200 μg/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, IF-P, IHC, 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

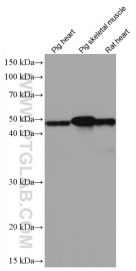
Alpha-sarcoglycan is a member of the sarcoglycan-sarcospan complex (SG-SSPN), which is constituted by α / -, β -, γ -, and δ -SGs as well as SSPN. Alpha-sarcoglycan gene expression is exclusive of striated muscle and is finely regulated during myogenic differentiation, where the amount of alpha-sarcoglycan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

Storage

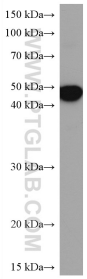
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

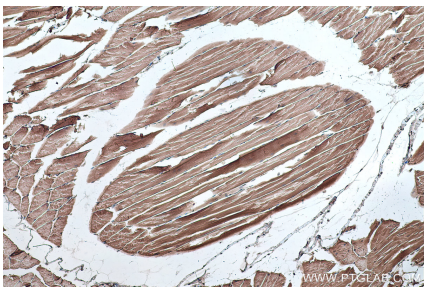
Selected Validation Data



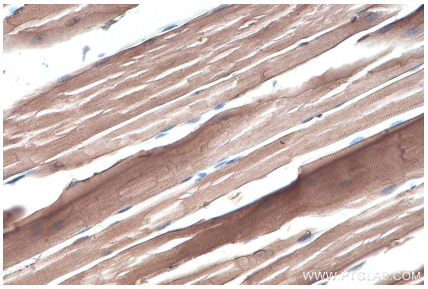
Various lysates were subjected to SDS PAGE followed by western blot with 67078-1-Ig (Alpha sarcoglycan antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



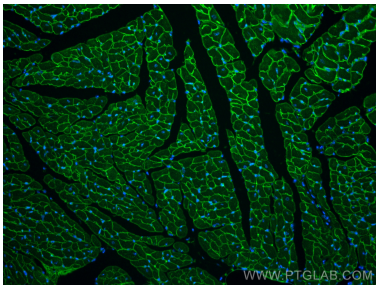
human skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 67078-1-Ig (Alpha sarcoglycan antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



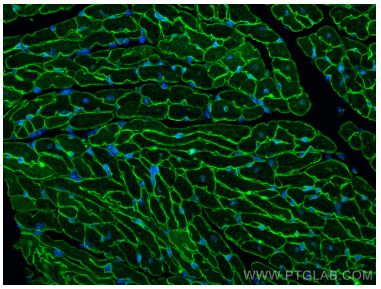
Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 67078-1-Ig (Alpha Sarcoglycan antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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