

Anti-gamma Sarcoglycan antibody [EPR17862-7] ab203113

Recombinant RabMAb

9 Images

Overview

Product name	Anti-gamma Sarcoglycan antibody [EPR17862-7]
Description	Rabbit monoclonal [EPR17862-7] to gamma Sarcoglycan
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, IP
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human skeletal muscle, MCF-7, Human fetal brain, Human fetal heart, Human fetal kidney, Human fetal spleen, Mouse muscle or Mouse heart whole cell lysate. IHC-P: Human skeletal muscle. IP: Human fetal kidney whole cell lysate
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR17862-7
Isotype	IgG

Applications

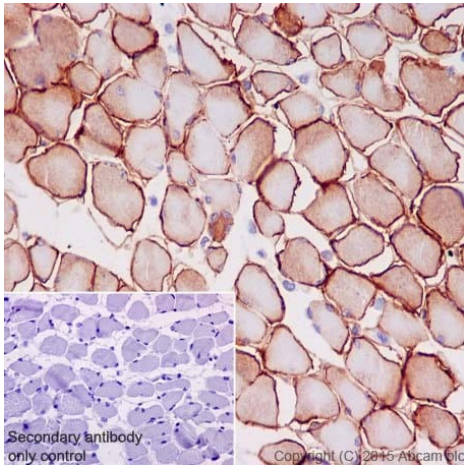
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab203113 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/2000. Detects a band of approximately 32 kDa (predicted molecular weight: 32 kDa).
IP		1/40.

Target

Function	Component of the sarcoglycan complex, a subcomplex of the dystrophin-glycoprotein complex which forms a link between the F-actin cytoskeleton and the extracellular matrix.
Tissue specificity	Expressed in skeletal and heart muscle.
Involvement in disease	Defects in SGCG are the cause of limb-girdle muscular dystrophy type 2C (LGMD2C) [MIM:253700]. LGMD2C is characterized by progressive muscle wasting from early childhood.
Sequence similarities	Belongs to the sarcoglycan beta/delta/gamma/zeta family.
Cellular localization	Cell membrane > sarcolemma. Cytoplasm > cytoskeleton.

Images

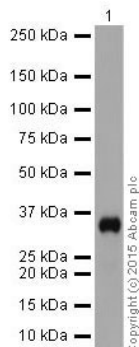


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-gamma Sarcoglycan antibody [EPR17862-7] (ab203113)

Immunohistochemical analysis of paraffin-embedded Human skeletal muscle tissue labeling gamma Sarcoglycan with ab203113 at 1/500 dilution followed by **ab97051** Goat Anti-Rabbit IgG H&L (HRP) at a 1/500 dilution. Cell membrane and weak cytoplasmic staining observed. Counter stained with Hematoxylin.

Negative control: Used PBS instead of primary antibody, with secondary **ab97051** Goat Anti-Rabbit IgG H&L (HRP).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western blot - Anti-gamma Sarcoglycan antibody [EPR17862-7] (ab203113)

Anti-gamma Sarcoglycan antibody [EPR17862-7] (ab203113) at 1/10000 dilution + Human skeletal muscle whole cell lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 32 kDa

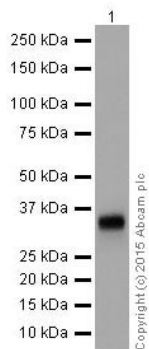
Observed band size: 32 kDa

Exposure time: 15 seconds

Blocking/Dilution buffer

5% NFDM/TBST.

This protein is expressed in skeletal and heart muscle.



Western blot - Anti-gamma Sarcoglycan antibody
[EPR17862-7] (ab203113)

Anti-gamma Sarcoglycan antibody [EPR17862-7] (ab203113) at
1/1000 dilution + Mouse muscle lysate at 10 µg

Secondary

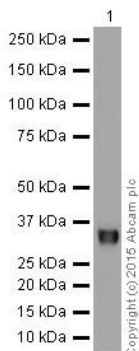
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000
dilution

Predicted band size: 32 kDa

Observed band size: 32 kDa

Exposure time: 30 seconds

Blocking buffer: 5% NFDM/TBST



Western blot - Anti-gamma Sarcoglycan antibody
[EPR17862-7] (ab203113)

Anti-gamma Sarcoglycan antibody [EPR17862-7] (ab203113) at
1/2000 dilution + Mouse heart tissue lysate at 10 µg

Secondary

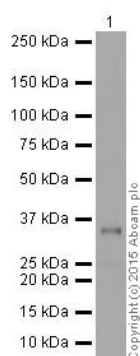
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000
dilution

Predicted band size: 32 kDa

Observed band size: 32 kDa

Exposure time: 10 seconds

Blocking and dilution buffer: 5% NFDM/TBST.



Western blot - Anti-gamma Sarcoglycan antibody [EPR17862-7] (ab203113)

Anti-gamma Sarcoglycan antibody [EPR17862-7] (ab203113) at 1/2000 dilution + MCF-7 (Human breast adenocarcinoma cell line) whole cell lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

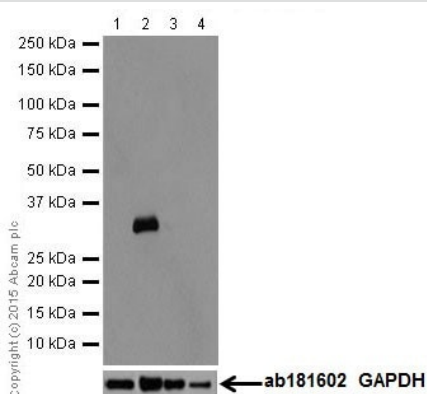
Predicted band size: 32 kDa

Observed band size: 32 kDa

Exposure time: 3 minutes

Blocking/dilution buffer

5% NFDM/TBST.



Western blot - Anti-gamma Sarcoglycan antibody [EPR17862-7] (ab203113)

All lanes : Anti-gamma Sarcoglycan antibody [EPR17862-7] (ab203113) at 1/2000 dilution

Lane 1 : Human fetal brain whole tissue lysate

Lane 2 : Human fetal heart whole tissue lysate

Lane 3 : Human fetal kidney whole tissue lysate

Lane 4 : Human fetal spleen whole tissue lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 32 kDa

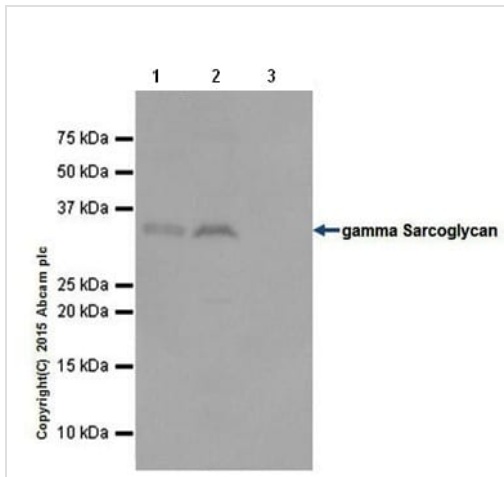
Observed band size: 32 kDa

Exposure time: 15 seconds

Blocking/dilution buffer: 5% NFDM/TBST.

This protein is expressed in skeletal and heart muscle.

ab181602 Anti-GAPDH antibody [EPR16891] control used.



Immunoprecipitation - Anti-gamma Sarcoglycan antibody [EPR17862-7] (ab203113)

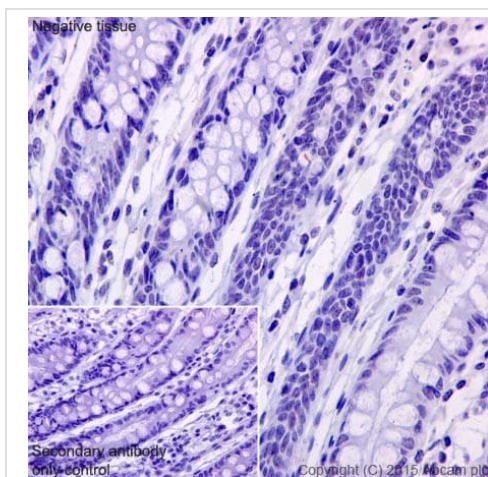
Human gamma Sarcoglycan was immunoprecipitated from 1mg of Human fetal kidney whole cell lysate with ab203113 at 1/40 dilution. Western blot was performed from the immunoprecipitate using ab203113 at 1/10000 dilution. Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/1500 dilution.

Lane 1: Human fetal kidney whole cell lysate 10 µg (Input). Lane 2: ab203113 IP in Human fetal kidney whole cell lysate. Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab203113 in Human fetal kidney whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 3 Seconds

Blocking/Dilution buffer 5% NFDM/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-gamma Sarcoglycan antibody [EPR17862-7] (ab203113)

Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling gamma Sarcoglycan with ab203113 at 1/500 dilution followed by **ab97051** Goat Anti-Rabbit IgG H&L (HRP) at a 1/500 dilution. No staining is observed on Human colon tissue. Counter stained with Hematoxylin.

Negative control: Used PBS instead of primary antibody, with secondary **ab97051** Goat Anti-Rabbit IgG H&L (HRP).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-gamma Sarcoglycan antibody [EPR17862-7]
(ab203113)

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