abcam

Product datasheet

Anti-SGTB/SGT2 antibody [EPR17183] ab202419

Recombinant RabMAb

1 References 9 Images

Overview

Product name	Anti-SGTB/SGT2 antibody [EPR17183]
Description	Rabbit monoclonal [EPR17183] to SGTB/SGT2
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P, ICC/IF, IP
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide within Human SGTB/SGT2 aa 150-250. The exact sequence is proprietary. Database link: Q96EQ0
Positive control	WB: HepG2, PC-12 and NIH/3T3 cell lysates; Human fetal brain, mouse brain and rat brain lysates. IHC-P: Human, mouse and rat cerebral cortex tissues. ICC/IF: SH-SY5Y and U-87 MG cells. IP: Mouse brain whole cell lysate.
General notes	This product was previously labelled as SGTB Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents. This product is a recombinant rabbit monoclonal antibody.

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	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR17183

Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab202419** in the following tested applications.

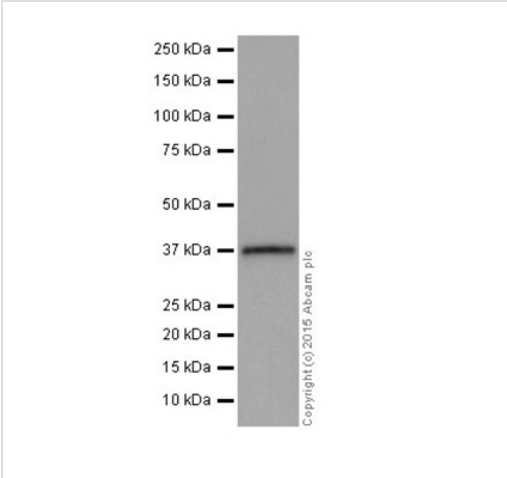
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/2000. Detects a band of approximately 37 kDa (predicted molecular weight: 33 kDa).
IHC-P		1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/100.
IP		1/40.

Target

Function	Co-chaperone that binds directly to HSC70 and HSP70 and regulates their ATPase activity.
Sequence similarities	Belongs to the SGT family. Contains 4 TPR repeats.

Images



Western blot - Anti-SGTB/SGT2 antibody [EPR17183] (ab202419)

Anti-SGTB/SGT2 antibody [EPR17183] (ab202419) at 1/2000 dilution + HepG2 (Human liver hepatocellular carcinoma) cell lysate at 20 µg

Secondary

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

Predicted band size: 33 kDa

Observed band size: 37 kDa

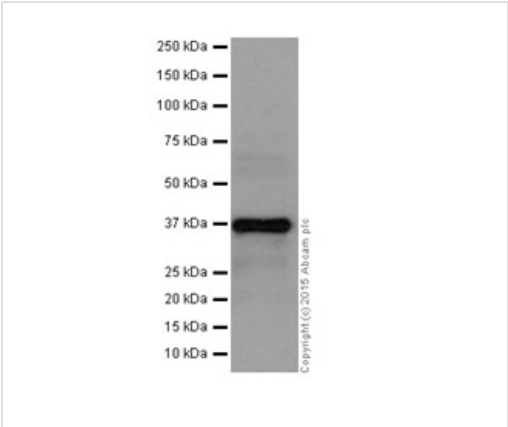
why is the actual band size different from the predicted?

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

The expression profile observed is consistent with what has been

described in the literature PMID: 12878599.



Western blot - Anti-SGTB/SGT2 antibody [EPR17183] (ab202419)

Anti-SGTB/SGT2 antibody [EPR17183] (ab202419) at 1/2000 dilution + Human fetal brain lysate at 10 µg

Secondary

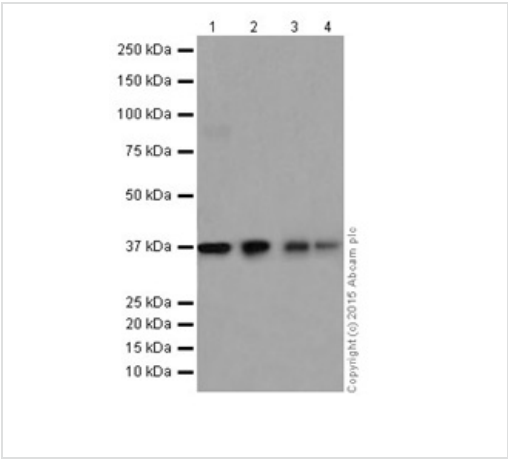
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 33 kDa
Observed band size: 37 kDa why is the actual band size different from the predicted?

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

The expression profile observed is consistent with what has been described in the literature PMID: 12878599.



Western blot - Anti-SGTB/SGT2 antibody [EPR17183] (ab202419)

All lanes : Anti-SGTB/SGT2 antibody [EPR17183] (ab202419) at 1/2000 dilution

Lane 1 : Mouse brain lysate
Lane 2 : Rat brain lysate
Lane 3 : PC-12 (Rat adrenal gland pheochromocytoma) cell lysate
Lane 4 : NIH/3T3 (Mouse embryo fibroblast cells) cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

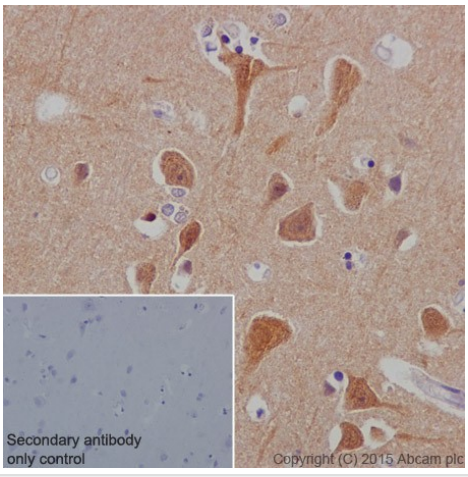
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 33 kDa
Observed band size: 37 kDa why is the actual band size different from the predicted?

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

The expression profile observed is consistent with what has been described in the literature PMID: 12878599.

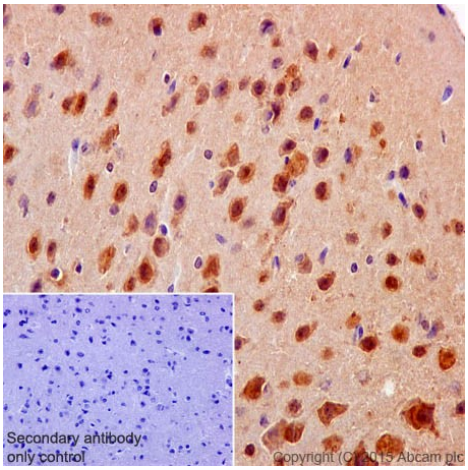


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SGTB/SGT2 antibody [EPR17183] (ab202419)

Immunohistochemical analysis of paraffin-embedded Human cerebral cortex tissue labeling SGTB/SGT2 with ab202419 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) secondary antibody at 1/500 dilution. Cytoplasmic and nuclear staining on Human cerebral cortex tissue is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

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

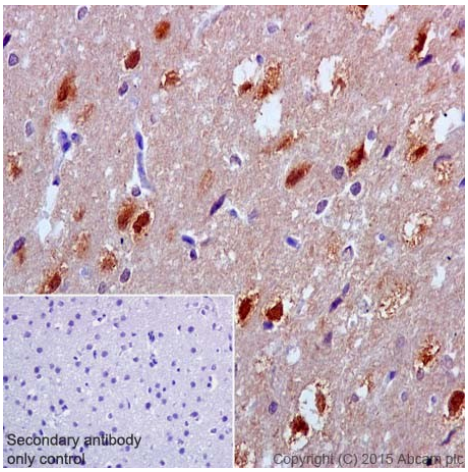


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SGTB/SGT2 antibody [EPR17183] (ab202419)

Immunohistochemical analysis of paraffin-embedded mouse cerebral cortex tissue labeling SGTB/SGT2 with ab202419 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) secondary antibody at 1/500 dilution. Cytoplasmic and nuclear staining on mouse cerebral cortex tissue is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

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

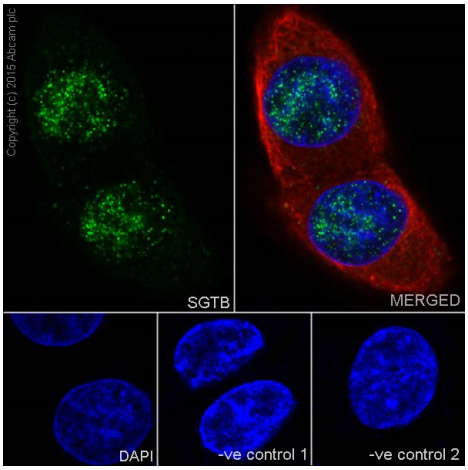


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SGTB/SGT2 antibody [EPR17183] (ab202419)

Immunohistochemical analysis of paraffin-embedded Rat cerebral cortex tissue labeling SGTB/SGT2 with ab202419 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) secondary antibody at 1/500 dilution. Cytoplasmic and nuclear staining on rat cerebral cortex tissue is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

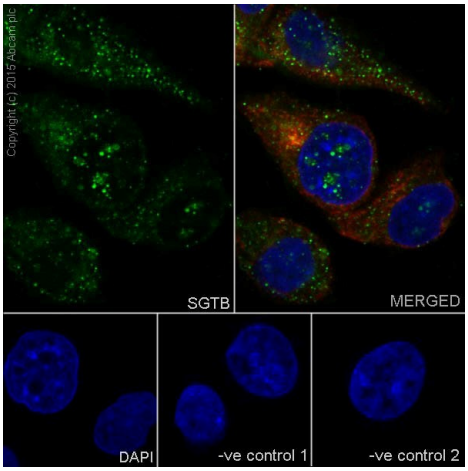
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-SGTB/SGT2 antibody [EPR17183] (ab202419)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized SH-SY5Y (Human neuroblastoma from bone marrow cells) cells labeling SGTB/SGT2 with ab202419 at 1/100 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/500 dilution (green). Confocal image showing nuclear and weakly cytoplasmic staining on SH-SY5Y cell line. The nuclear counter stain is DAPI (blue). Tubulin is detected with ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution and ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution (red).

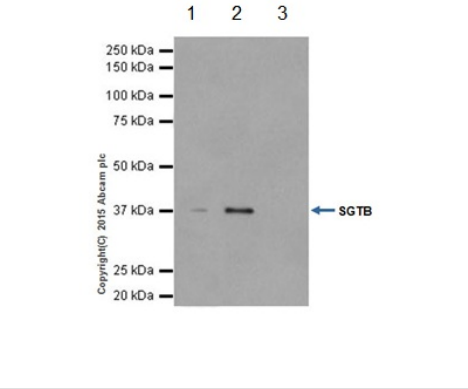
The negative controls are as follows:
-ve control 1: ab202419 at 1/100 dilution followed by ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution.
-ve control 2: ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution followed by ab150077 (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/500 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-SGTB/SGT2 antibody [EPR17183] (ab202419)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized U-87 MG (Human glioblastoma-astrocytoma epithelial cell line) cells labeling SGTB/SGT2 with ab202419 at 1/100 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/500 dilution (green). Confocal image showing nuclear and cytoplasmic staining on U-87 MG cell line. The nuclear counter stain is DAPI (blue). Tubulin is detected with ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution and ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution (red).

The negative controls are as follows:
-ve control 1: ab202419 at 1/100 dilution followed by ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution.
-ve control 2: ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution followed by ab150077 (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/500 dilution.



Immunoprecipitation - Anti-SGTB/SGT2 antibody [EPR17183] (ab202419)

SGTB/SGT2 was immunoprecipitated from 1mg of Mouse brain whole cell lysate with ab202419 at 1/40 dilution. Western blot was performed from the immunoprecipitate using ab202419 at 1/1000 dilution. Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/1500 dilution.

Lane 1: Mouse brain whole cell lysate 10 µg (Input). Lane 2: ab202419 IP in Mouse brain whole cell lysate. Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab202419 in Mouse brain whole cell lysate.
Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 1 second.

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