abcam

Product datasheet

Anti-LLGL1 + LLGL2 antibody [EPR18899] ab183021

Recombinant RabMAb

1 References 10 Images

Overview

Product name	Anti-LLGL1 + LLGL2 antibody [EPR18899]
Description	Rabbit monoclonal [EPR18899] to LLGL1 + LLGL2
Host species	Rabbit
Specificity	The immunogen used for this product shares 53% identity (67% positives) with LLGL2. Cross-reactivity with this protein has not been confirmed experimentally.
Tested applications	**Suitable for:** IHC-P, WB, ICC/IF, IP
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HepG2, SW480, A431, Caco-2 and 293 whole cell lysates; Human fetal liver, fetal heart and fetal kidney lysates. IHC-P: Human kidney and stomach tissues. ICC/IF: HepG2 and SW480 cells. IP: HepG2 whole cell lysate.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

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	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR18899
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab183021 in the following tested applications.

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

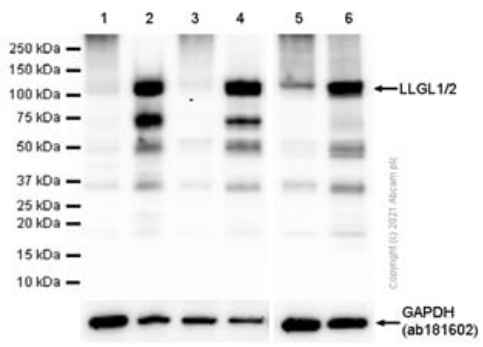
Application	Abreviews	Notes
IHC-P		1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/2000. Detects a band of approximately 115 kDa (predicted molecular weight: 115 kDa).
ICC/IF		1/100.
IP		1/50.

Target

Relevance LLGL1 is a protein that is similar to a tumor suppressor in Drosophila. The protein is part of a cytoskeletal network and is associated with nonmuscle myosin II heavy chain and a kinase that specifically phosphorylates this protein at serine residues. The gene for LLGL1 is located within the Smith-Magenis syndrome region on chromosome 17. LLGL2 is a protein similar to lethal (2) giant larvae of Drosophila. In fly, the protein's ability to localize cell fate determinants is regulated by the atypical protein kinase C (aPKC). In human, this protein interacts with aPKC-containing complexes and is cortically localized in mitotic cells.

Cellular localization Cytoplasmic

Images



Western blot - Anti-LLGL1 + LLGL2 antibody [EPR18899] (ab183021)

All lanes : Anti-LLGL1 + LLGL2 antibody [EPR18899] (ab183021) at 1/2000 dilution

Lane 1 : A431 (Human epidermoid carcinoma epithelial cell) whole cell lysate prepared in RIPA lysis method

Lane 2 : A431 (Human epidermoid carcinoma epithelial cell) whole cell lysate prepared in 1% SDS Hot lysis method

Lane 3 : SW480 (Human colorectal adenocarcinoma epithelial cell) whole cell lysate prepared in RIPA lysis method

Lane 4 : SW480 (Human colorectal adenocarcinoma epithelial cell) whole cell lysate prepared in 1% SDS Hot lysis method

Lane 5 : Caco-2 (Human colorectal adenocarcinoma epithelial cell)

whole cell lysate prepared in RIPA lysis method
Lane 6 : Caco-2 (Human colorectal adenocarcinoma epithelial cell) whole cell lysate prepared in 1% SDS Hot lysis method

Lysates/proteins at 15 µg per lane.

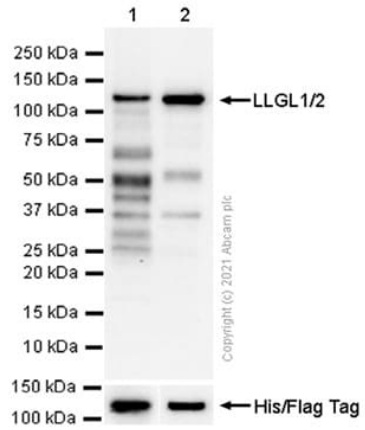
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 115 kDa
Observed band size: 115 kDa

Exposure time: 20 seconds

Blocking buffer: 5% NFDM/TBST.

We recommend to use 1% SDS Hot lysis method to get desired WB results.



Western blot - Anti-LLGL1 + LLGL2 antibody [EPR18899] (ab183021)

All lanes : Anti-LLGL1 + LLGL2 antibody [EPR18899] (ab183021) at 1/10000 dilution

Lane 1 : His tagged human LLGL1 full length recombinant protein
Lane 2 : Flag tagged human LLGL2 full length recombinant protein

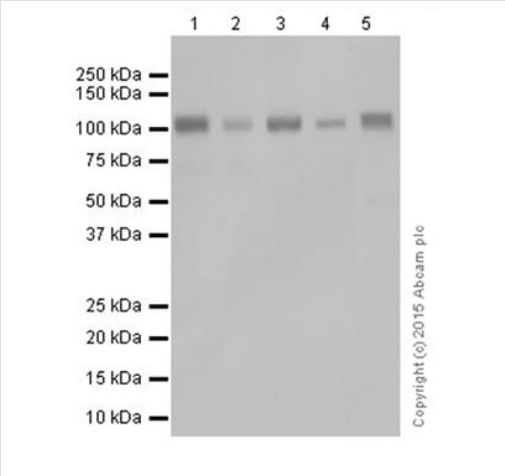
Lysates/proteins at 0.01 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 115 kDa
Observed band size: 120 kDa

Exposure time: 40 seconds

Blocking buffer: 5% NFDM/TBST.



Western blot - Anti-LLGL1 + LLGL2 antibody [EPR18899] (ab183021)

All lanes : Anti-LLGL1 + LLGL2 antibody [EPR18899] (ab183021) at 1/5000 dilution

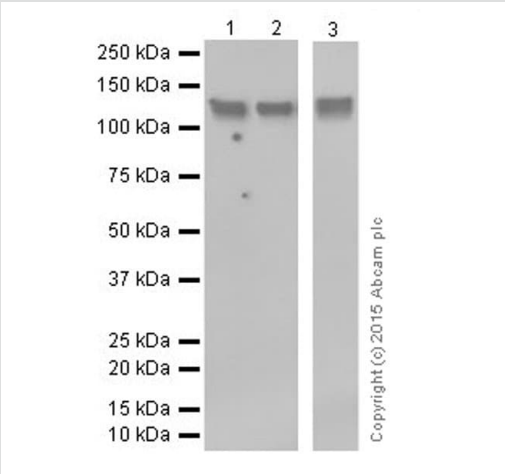
Lane 1 : HepG2 cell lysate
Lane 2 : A431 cell lysate
Lane 3 : SW480 cell lysate
Lane 4 : A459 cell lysate
Lane 5 : Caco-2 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 115 kDa
Observed band size: 115 kDa

Blocking buffer: 5% NFDM/TBST
Dilution buffer: 5% NFDM/TBST



Western blot - Anti-LLGL1 + LLGL2 antibody [EPR18899] (ab183021)

All lanes : Anti-LLGL1 + LLGL2 antibody [EPR18899] (ab183021) at 1/2000 dilution

Lane 1 : Human fetal liver lysate
Lane 2 : Human fetal heart lysate
Lane 3 : Human fetal kidney lysate

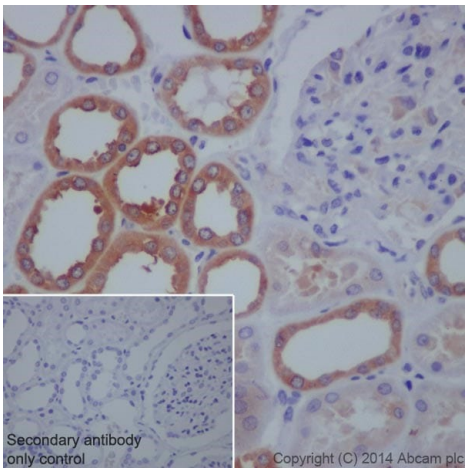
Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/10000 dilution

Predicted band size: 115 kDa
Observed band size: 115 kDa

Blocking/dilution buffer: 5% NFDM/TBST.

Exposure time Lane 1/2: 3 minutes; Lane 3: 15 seconds.

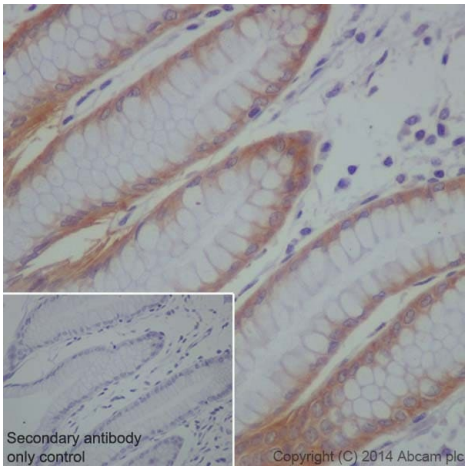


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LLGL1 + LLGL2 antibody [EPR18899] (ab183021)

Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling LLGL1 with ab183021 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Cytoplasm staining on Human kidney 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.

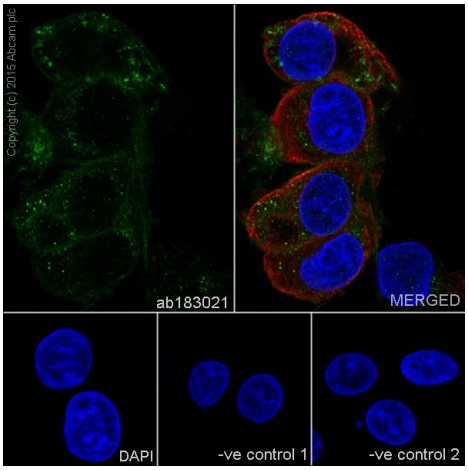


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LLGL1 + LLGL2 antibody [EPR18899] (ab183021)

Immunohistochemical analysis of paraffin-embedded Human stomach tissue labeling LLGL1 with ab183021 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Cytoplasm staining on Human stomach 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.

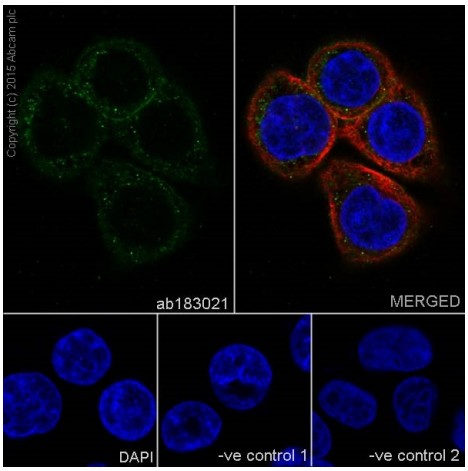
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-LLGL1 + LLGL2 antibody [EPR18899] (ab183021)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HepG2 (Human liver hepatocellular carcinoma cell line) cells labeling LLGL1 with ab183021 at 1/100 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining on HepG2 cell line. The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [EPR18899]-Loading Control (**ab7291**) at 1/1000 dilution and Goat Anti-Mouse IgG (AlexaFluor®594) preadsorbed (**ab150120**) at 1/1000 dilution (red).

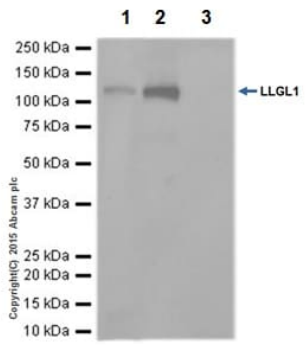
The negative controls are as follows:
-ve control 1: ab183021 at 1/100 dilution followed by **ab150120** at 1/1000 dilution.
-ve control 2: **ab7291** at 1/1000 dilution followed by **ab150077** at 1/1000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-LLGL1 + LLGL2 antibody [EPR18899] (ab183021)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized SW480 (Human colorectal adenocarcinoma cell line) cells labeling LLGL1 with ab183021 at 1/100 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining on SW480 cell line. The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [EPR18899]-Loading Control (**ab7291**) at 1/1000 dilution and Goat Anti-Mouse IgG (AlexaFluor®594) preadsorbed (**ab150120**) at 1/1000 dilution (red).

The negative controls are as follows:
-ve control 1: ab183021 at 1/100 dilution followed by **ab150120** at 1/1000 dilution.
-ve control 2: **ab7291** at 1/1000 dilution followed by **ab150077** at 1/1000 dilution.



Immunoprecipitation - Anti-LLGL1 + LLGL2 antibody [EPR18899] (ab183021)

LLGL1was immunoprecipitated from 1mg of HepG2 (Human liver hepatocellular carcinoma cell line) whole cell lysate with ab183021 at 1/50 dilution. Western blot was performed from the immunoprecipitate using ab183021 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.
Lane 1: HepG2 whole cell lysate 10µg (Input).
Lane 2: ab183021 IP in HepG2 whole cell lysate.
Lane 3: Rabbit IgG, monoclonal [EPR18899] - Isotype Control (**ab172730**) instead of ab183021 in HepG2 whole cell lysate.
Blocking and dilution buffer and concentration: 5% NFDM/TBST.
Exposure time: 10 seconds.

Anti-LLGL1 + LLGL2 antibody [EPR18899] (ab183021)

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