abcam

ab283821

Anti-LRPPRC/GP130 antibody [EPR24052-38] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR24052-38
Purification technique	Affinity purification Protein A
Concentration	1.054 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Mouse, Human
Dilution info	-

Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

WB

Tested

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Mouse, Human
Dilution info	-
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt (Intra)

Tested

Species	Mouse, Human
Dilution info	-
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information LRPPRC

Function

May play a role in RNA metabolism in both nuclei and mitochondria. In the nucleus binds to HNRPA1-associated poly(A) mRNAs and is part of nmRNP complexes at late stages of mRNA maturation which are possibly associated with nuclear mRNA export. Positively modulates nuclear export of mRNAs containing the EIF4E sensitivity element (4ESE) by binding simultaneously to both EIF4E and the 4ESE and acting as a platform for assembly for the RNA export complex (PubMed:19262567, PubMed:28325843). Also binds to exportin XPO1/CRM1 to engage the nuclear pore and traffic the bound mRNAs to the cytoplasm (PubMed:28325843). May bind mature mRNA in the nucleus outer membrane. In mitochondria binds to poly(A) mRNA. Plays a role in translation or stability of mitochondrially encoded cytochrome c oxidase (COX) subunits. May be involved in transcription regulation. Cooperates with PPARGC1A to regulate certain mitochondrially encoded genes and gluconeogenic genes and may regulate docking of PPARGC1A to transcription factors. Seems to be involved in the transcription regulation of the multidrug-related genes MDR1 and MVP. Part of a nuclear factor that binds to the invMED1 element of MDR1 and MVP gene promoters. Binds single-stranded DNA (By similarity). Required for maintaining

mitochondrial potential (PubMed:23822101). Suppresses the initiation of basal levels of autophagy and mitophagy by sustaining BCL2 levels (PubMed:23822101).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

Notes

ab283821 is the carrier-free version of ab259927.

Patented technology

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?

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 batch production

For more information, read more on recombinant antibodies.

Conjugation ready

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility

This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

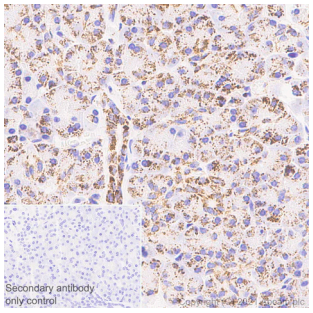
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

---

12 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LRPPRC/GP130 antibody [EPR24052-38] - BSA and Azide free (ab283821)

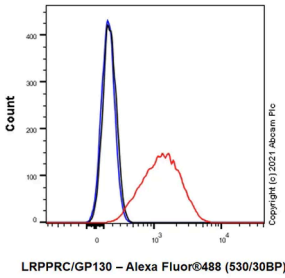
LRPPRC/GP130 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-LRPPRC/GP130 antibody

This data was developed using ab259927, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Human pancreas tissue labelling LRPPRC/GP130 with ab259927 at 1/100 (5.84 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on human pancreas. The section was incubated with ab259927 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins

---

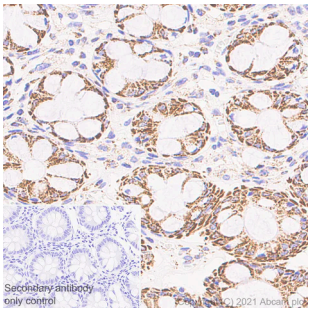


Flow Cytometry (Intracellular) - Anti-LRPPRC/GP130 antibody [EPR24052-38] - BSA and Azide free (ab283821)

LRPPRC/GP130 Flow Cytometry (Intracellular) staining using rabbit Anti-LRPPRC/GP130 antibody

This data was developed using ab259927, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized HeLa (Human cervix adenocarcinoma epithelial cell) cells labelling LRPPRC/GP130 with ab259927 at 1/50 dilution (1ug)(Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat F(ab')2 Anti-Rabbit IgG(DyLight® 488, ab98507) at 1/500 dilution was used as the secondary antibody.



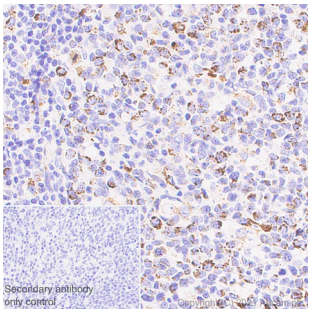
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LRPPRC/GP130 antibody [EPR24052-38] - BSA and Azide free (ab283821)

LRPPRC/GP130 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-LRPPRC/GP130 antibody

This data was developed using ab259927, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Human colon tissue labelling LRPPRC/GP130 with ab259927 at 1/100 (5.84 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on human colon. The section was incubated with ab259927 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins



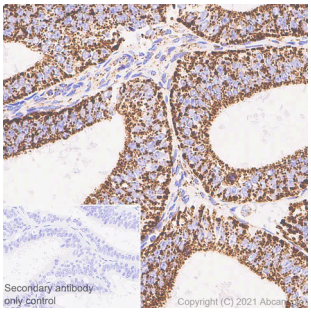
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LRPPRC/GP130 antibody [EPR24052-38] - BSA and Azide free (ab283821)

LRPPRC/GP130 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-LRPPRC/GP130 antibody

This data was developed using ab259927, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labelling LRPPRC/GP130 with ab259927 at 1/100 (5.84 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on human tonsil. The section was incubated with ab259927 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins



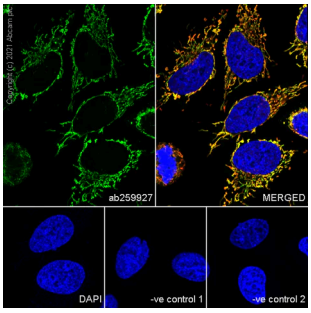
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LRPPRC/GP130 antibody [EPR24052-38] - BSA and Azide free (ab283821)

LRPPRC/GP130 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-LRPPRC/GP130 antibody

This data was developed using ab259927, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Human endometrial carcinoma tissue labelling LRPPRC/GP130 with ab259927 at 1/100 (5.84 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on human endometrial carcinoma. The section was incubated with ab259927 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins

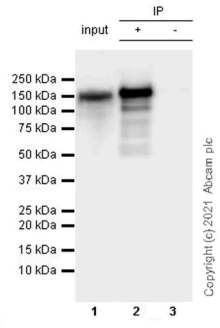


Immunocytochemistry/ Immunofluorescence - Anti-LRPPRC/GP130 antibody [EPR24052-38] - BSA and Azide free (ab283821)

LRPPRC/GP130 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-LRPPRC/GP130 antibody

This data was developed using ab259927, the same antibody clone in a different buffer formulation.
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized HeLa cells labelling LRPPRC/GP130 with ab259927 at 1/200 (2.92 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 (2ug/ml) dilution (Green). Confocal image showing co-locolization staining with Mitochondrial Marker in HeLa cells is observed. ab14748 Anti-ATP5A mouse monoclonal antibody - Mitochondrial Marker was used to counterstain tubulin at 1/500 (2ug/ml) dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2ug/ml) dilution.



Immunoprecipitation - Anti-LRPPRC/GP130 antibody [EPR24052-38] - BSA and Azide free (ab283821)

This data was developed using ab259927, the same antibody clone in a different buffer formulation.
LRPPRC/GP130 was immunoprecipitated from 0.35 mg HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate 10 ug with ab259927 at 1/30 dilution (2 ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab259927 at 1/1000 dilution. VeriBlot for IP secondary antibody (HRP) (ab131366) was used at 1/5000 dilution.

Lane 1: HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate 10 ug

Lane 2: ab259927 IP in HeLa whole cell lysate

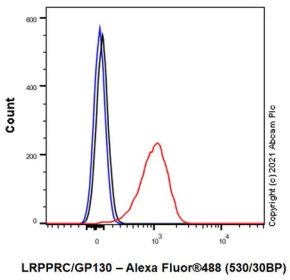
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab259927 in HeLa whole cell lysate

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

Exposure time: 3 seconds
All lanes:
Immunoprecipitation - Anti-LRPPRC/GP130 antibody [EPR24052-38] (ab259927)

Predicted band size: 158 kDa

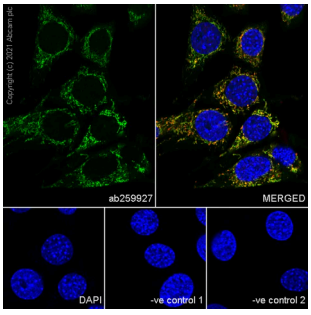
Observed band size: 150 kDa



Flow Cytometry (Intracellular) - Anti-LRPPRC/GP130 antibody [EPR24052-38] - BSA and Azide free (ab283821)

LRPPRC/GP130 Flow Cytometry (Intracellular) staining using rabbit Anti-LRPPRC/GP130 antibody

This data was developed using ab259927, the same antibody clone in a different buffer formulation.
Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized NIH/3T3 (Mouse embryonic fibroblast) cells labelling LRPPRC/GP130 with ab259927 at 1/500 dilution (0.1ug) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat F(ab')2 Anti-Rabbit IgG(DyLight® 488, ab98507) at 1/500 dilution was used as the secondary antibody.

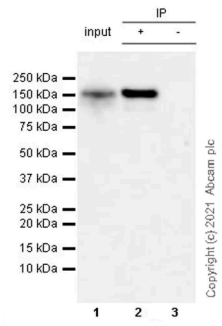


Immunocytochemistry/ Immunofluorescence - Anti-LRPPRC/GP130 antibody [EPR24052-38] - BSA and Azide free (ab283821)

LRPPRC/GP130 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-LRPPRC/GP130 antibody

This data was developed using ab259927, the same antibody clone in a different buffer formulation.
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized NIH/3T3 cells labelling LRPPRC/GP130 with ab259927 at 1/200 (2.92 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 2ug/ml dilution (Green). Confocal image showing co-locolization staining with Mitochondrial Marker in NIH/3T3 cells is observed. ab14748 Anti-ATP5A mouse monoclonal antibody - Mitochondrial Marker was used to counterstain tubulin at 1/500 2ug/ml dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2ug/ml dilution.



Immunoprecipitation - Anti-LRPPRC/GP130 antibody [EPR24052-38] - BSA and Azide free (ab283821)

This data was developed using ab259927, the same antibody clone in a different buffer formulation.
LRPPRC/GP130 was immunoprecipitated from 0.35 mg NIH/3T3 (mouse embryonic fibroblast) whole cell lysate 10 ug with ab259927 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab259927 at 1/1000 dilution. VeriBlot for IP secondary antibody (HRP) (ab131366) was used at 1/5000 dilution.

Lane 1: NIH/3T3 (mouse embryonic fibroblast) whole cell lysate 10 ug
Lane 2: ab259927 IP in NIH/3T3 whole cell lysate
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab259927 in NIH/3T3 whole cell lysate

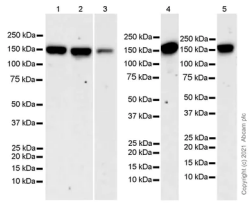
Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 10 seconds

All lanes:
Immunoprecipitation - Anti-LRPPRC/GP130 antibody [EPR24052-38] (ab259927)

Predicted band size: 158 kDa

Observed band size: 150 kDa



Western blot - Anti-LRPPRC/GP130 antibody [EPR24052-38] - BSA and Azide free (ab283821)

LRPPRC/GP130 Western blot staining using rabbit Anti-LRPPRC/GP130 antibody

This data was developed using ab259927, the same antibody clone in a different buffer formulation.
Blocking and diluting buffer and concentration: 5% NFDM/TBST.

Lysates should be made freshly and used in WB immediately to minimize protein degradation.

Exposure time: Lanes 1-2/4-5: 147 seconds ; Lanes 3: 3 minutes

All lanes:
Western blot - Anti-LRPPRC/GP130 antibody [EPR24052-38] - BSA and Azide free (ab283821) at 1/5000 dilution

Lane 1:
HeLa (human cervix adenocarcinoma epithelial cell), whole cell lysate at 20 µg

Lane 2:
HEK-293T (human embryonic kidney epithelial cell), whole cell lysate at 20 µg

Lane 3:
PC-12 (rat adrenal gland pheochromocytoma), whole cell lysate at 20 µg

Lane 4:
HepG2 (human hepatocellular carcinoma epithelial cell), whole cell lysate at 20 µg

Lane 5:
SH-SY5Y (human neuroblastoma epithelial cell), whole cell lysate at 20 µg

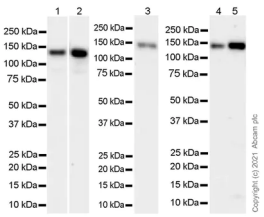
Secondary

All lanes:

Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 158 kDa

Observed band size: 150 kDa



Western blot - Anti-LRPPRC/GP130 antibody [EPR24052-38] - BSA and Azide free (ab283821)

LRPPRC/GP130 Western blot staining using rabbit Anti-LRPPRC/GP130 antibody

This data was developed using ab259927, the same antibody clone in a different buffer formulation.
Blocking and diluting buffer and concentration: 5% NFDM/TBST

Exposure time: Lanes 1-2: 59 seconds ; Lane 3: 26 seconds Lanes 4-5: 3 minutes

All lanes:
Western blot - Anti-LRPPRC/GP130 antibody [EPR24052-38] - BSA and Azide free (ab283821) at 1/1000 dilution

Lane 1:
RAW264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage), whole cell lysate at 10 µg

Lane 2:
NIH/3T3 (mouse embryonic fibroblast), whole cell lysate at 10 µg

Lane 3:
Neuro-2a (mouse neuroblastoma neuroblast), whole cell lysate at 10 µg

Lane 4:
Mouse brain tissue lysate at 10 µg

Lane 5:
Mouse heart tissue lysate at 10 µg

Secondary

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

Predicted band size: 158 kDa

Observed band size: 150 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.