abcam

ab201467

Anti-KIAA0652/ATG13 antibody [EPR19601]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR19601
Purification technique	Affinity purification Protein A
Concentration	0.57 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	1/30
Notes	-

Expected

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

WB

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Species	Rat
Dilution info	1/1000
Notes	-

Species	Human
Dilution info	1/1000
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/60
Notes	-

Expected

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

Target data

See full target information ATG13

Function	Autophagy factor required for autophagosome formation and mitophagy. Target of the TOR kinase signaling pathway that regulates autophagy through the control of the phosphorylation status of ATG13 and ULK1, and the regulation of the ATG13-ULK1-RB1CC1 complex. Through its regulation of ULK1 activity, plays a role in the regulation of the kinase activity of mTORC1 and cell proliferation.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

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.

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.

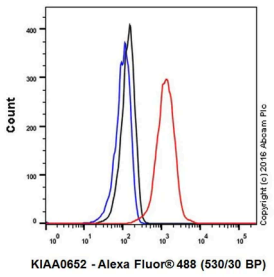
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

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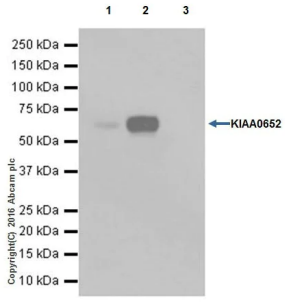
6 product images



Flow Cytometry (Intracellular) - Anti-KIAA0652/ATG13 antibody [EPR19601] (ab201467)

KIAA0652/ATG13 Flow Cytometry (Intracellular) staining using rabbit Anti-KIAA0652/ATG13 antibody

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed HeLa (Human epithelial cell line from cervix adenocarcinoma) cells labeling KIAA0652/ATG13 with ab201467 at 1/60 dilution (red) compared with a rabbit monoclonal IgG isotype control (ab172730; black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody; blue). Goat Anti-Rabbit IgG (Alexa Fluorr® 488) at 1/2000 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-KIAA0652/ATG13 antibody [EPR19601] (ab201467)

KIAA0652/ATG13 was immunoprecipitated from 0.35 mg of HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate with ab201467 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab201467 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/10000 dilution.
Lane 1: HeLa whole cell lysate 10µg (Input).

Lane 2: ab201467 IP in HeLa whole cell lysate.

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab201467 in HeLa whole cell lysate.

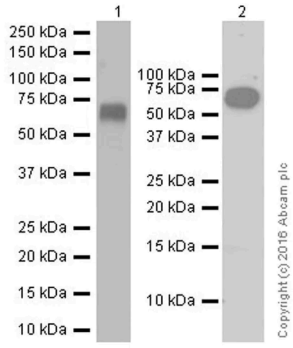
Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 30 seconds.

All lanes:

Immunoprecipitation - Anti-KIAA0652/ATG13 antibody [EPR19601] (ab201467)

Predicted band size: 56 kDa



Western blot - Anti-KIAA0652/ATG13 antibody [EPR19601] (ab201467)

KIAA0652/ATG13 Western blot staining using rabbit Anti-KIAA0652/ATG13 antibody

Blocking/Dilution buffer: 5% NFDM/TBST.
All lanes:
Western blot - Anti-KIAA0652/ATG13 antibody [EPR19601] (ab201467) at 1/1000 dilution

Lane 1:
Human cerebellum lysate at 20 µg

Lane 2:
Human hippocampus lysate at 10 µg

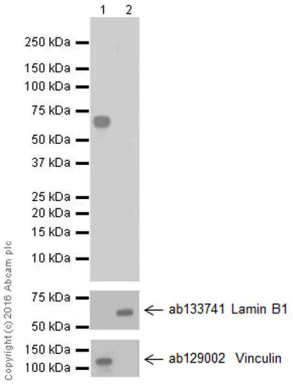
Secondary

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

Predicted band size: 56 kDa

Observed band size: 70 kDa

Exposure time: 3min



Western blot - Anti-KIAA0652/ATG13 antibody [EPR19601] (ab201467)

Blocking/Dilution buffer: 5% NFDM/TBST.
All lanes:
Western blot - Anti-KIAA0652/ATG13 antibody [EPR19601] (ab201467) at 1/1000 dilution

Lane 1:
HeLa (Human epithelial cell line from cervix adenocarcinoma) cytoplasmic fraction lysate at 10 µg

Lane 2:
HeLa (Human epithelial cell line from cervix adenocarcinoma) nuclear fraction lysate at 10 µg

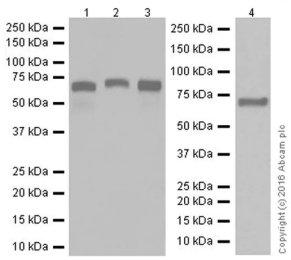
Secondary

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

Predicted band size: 56 kDa

Observed band size: 70 kDa

Exposure time: 15s



Western blot - Anti-KIAA0652/ATG13 antibody [EPR19601] (ab201467)

Blocking/Dilution buffer: 5% NFDM/TBST.
Exposure times: Lane 1-3: 30 seconds; Lane 4: 3 minutes.

The molecular weight observed is consistent with what has been described in the literature (PMID:18936157).

All lanes:
Western blot - Anti-KIAA0652/ATG13 antibody [EPR19601] (ab201467) at 1/1000 dilution

Lane 1:
HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate at 20 µg

Lane 2:
MCF7 (Human breast adenocarcinoma cell line) whole cell lysate at 20 µg

Lane 3:
A20 (Mouse reticulum sarcoma cell line) whole cell lysate at 20 µg

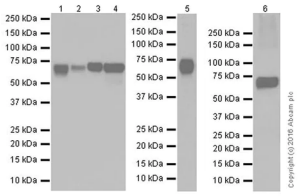
Lane 4:
A-673 (Human muscle Ewing's Sarcoma cell line) whole cell lysate at 10 µg

Secondary

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

Predicted band size: 56 kDa

Observed band size: 70 kDa



Western blot - Anti-KIAA0652/ATG13 antibody [EPR19601] (ab201467)

KIAA0652/ATG13 Western blot staining using rabbit Anti-KIAA0652/ATG13 antibody

Blocking/Dilution buffer: 5% NFDM/TBST.
All lanes:
Western blot - Anti-KIAA0652/ATG13 antibody [EPR19601] (ab201467) at 1/1000 dilution

Lane 1:
C6 (Rat glial tumor cell line) whole cell lysate at 10 µg

Lane 2:
RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate at 10 µg

Lane 3:
PC-12 (Rat adrenal gland pheochromocytoma cell line) whole cell lysate at 10 µg

Lane 4:
NIH/3T3 (Mouse embryonic fibroblast cell line) whole cell lysate at 10 µg

Lane 5:
Mouse brain tissue lysate at 10 µg

Lane 6:
Rat brain 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: 56 kDa

Observed band size: 70 kDa

Exposure time: 3min

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