abcam

ab302540

Anti-CKAP4 antibody [EPR25713-62] (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	EPR25713-62
Purification technique	Affinity purification Protein A
Concentration	1.02 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Human, Mouse, Rat
Dilution info	-

Notes	-

IHC-P

Tested

Species	Human, Rat, Mouse
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human, Mouse
Dilution info	-
Notes	-

Expected

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

Flow Cyt (Intra)

Tested

Species	Human, Mouse
Dilution info	-
Notes	-

Expected

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

IP

Tested

Species	Human, Mouse
Dilution info	-
Notes	-

Expected

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

Target data

See full target information CKAP4

Function	Mediates the anchoring of the endoplasmic reticulum to microtubules. High-affinity epithelial cell surface receptor for the FZD8-related low molecular weight sialoglycopeptide APF/antiproliferative factor. Mediates the APF antiproliferative signaling within cells.

Storage

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

Notes

Want a custom formulation?
This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com

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

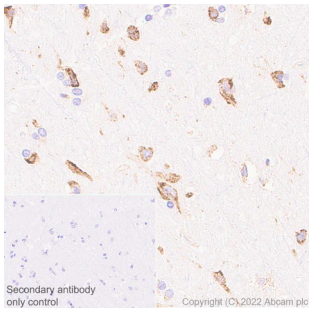
We do not recommend this combination. It is not covered by our product promise.

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.

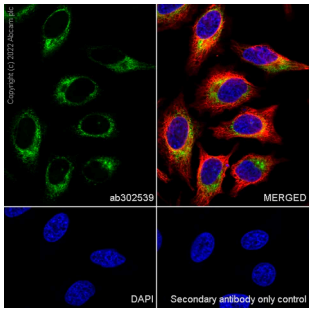
Full details and terms and conditions can be found here:
Terms & Conditions.

14 product images



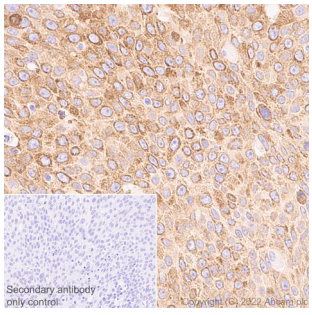
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CKAP4 antibody [EPR25713-62] (BSA and Azide free) (ab302540)

This data was developed using ab302539, the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin-embedded Human cerebral corte tissue labeling CKAP4 with ab302539 at 1/2000 (0.255 ug/ml) followed by a ready to use LeicaDS9800 (Bond☒ Polymer Refine Detection) was used. Positive staining on human cerebral cortex. The section was incubated with ab302539 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) was used. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins



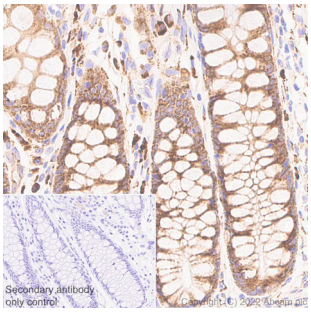
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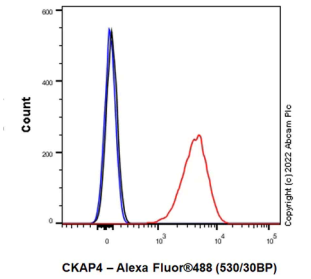
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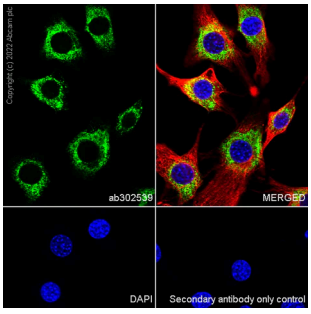
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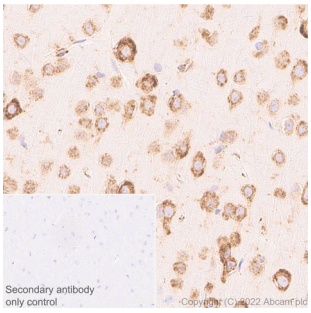
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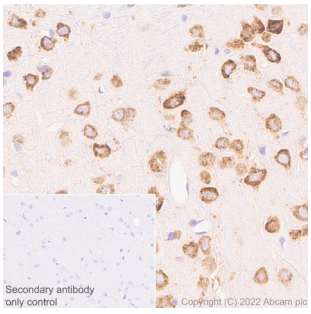
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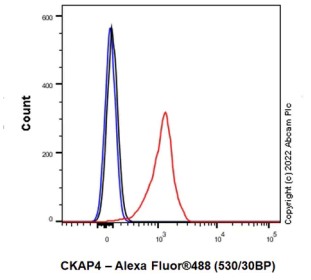
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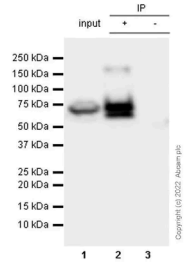
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Flow Cytometry (Intracellular) - Anti-CKAP4 antibody [EPR25713-62] (BSA and Azide free) (ab302540)

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Immunoprecipitation - Anti-CKAP4 antibody [EPR25713-62] (BSA and Azide free) (ab302540)

This data was developed using ab302539, the same antibody clone in a different buffer formulation.

CKAP4 was immunoprecipitated from 0.35 mg (mouse embryonic fibroblast), whole cell lysate with ab302539 at 1/30 dilution (2 µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab302539 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 µg (Inset)
Lane 2: ab302539 IP in NIH/3T3 whole cell lysate
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab302539 in NIH/3T3 whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDM/TBST.
All lanes:
Immunoprecipitation - Anti-CKAP4 antibody [EPR25713-62] (ab302539) at 1/30 dilution

All lanes:
NIH/3T3 (mouse embryonic fibroblast), whole cell lysate

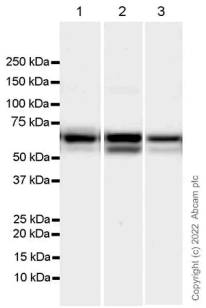
Secondary

All lanes:
Immunoprecipitation - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/5000 dilution

Predicted band size: 66 kDa

Observed band size: 63 kDa

Exposure time: 3s



Western blot - Anti-CKAP4 antibody [EPR25713-62] (BSA and Azide free) (ab302540)

This data was developed using ab302539, the same antibody clone in a different buffer formulation. Blocking and diluting buffer and concentration: 5% NFDM/TBST The band beneath the target band (63 kDa) is likely to be degraded target fragments.
All lanes:
Western blot - Anti-CKAP4 antibody [EPR25713-62] (ab302539) at 1/1000 dilution

Lane 1:
Caco-2 (human colorectal adenocarcinoma epithelial cell), whole cell lysate 20 µg

Lane 2:
3T3-L1 (mouse embryonic fibroblast), whole cell lysate 20 µg

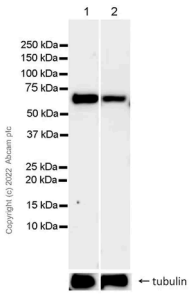
Lane 3:
Mouse pancreas cancer tissue lysate 20 µg

Secondary

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

Observed band size: 63 kDa

Exposure time: 10s



Western blot - Anti-CKAP4 antibody [EPR25713-62] (BSA and Azide free) (ab302540)

This data was developed using ab302539, the same antibody clone in a different buffer formulation. Blocking and diluting buffer and concentration: 5% NFDM/TBST
All lanes:
Western blot - Anti-CKAP4 antibody [EPR25713-62] (ab302539) at 1/1000 dilution

Lane 1:
HeLa (human cervix adenocarcinoma epithelial cell) transfected with scrambled siRNA control, whole cell lysate 20 µg

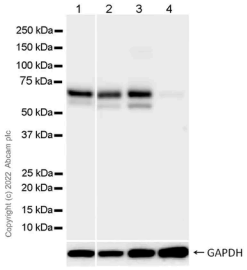
Lane 2:
HeLa transfected with siRNA specifically targeting cytoskeleton-associated protein 4, whole cell lysate 20 µg

Secondary

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

Observed band size: 63 kDa

Exposure time: 48s



Western blot - Anti-CKAP4 antibody [EPR25713-62] (BSA and Azide free) (ab302540)

This data was developed using ab302539, the same antibody clone in a different buffer formulation. Blocking and diluting buffer and concentration: 5% NFDM/TBST Low expression: human skeletal muscle (HPA database). The band beneath the target band (63 kDa) is likely to be degraded target fragments.
All lanes:
Western blot - Anti-CKAP4 antibody [EPR25713-62] (ab302539) at 1/1000 dilution

Lane 1:
Human colon tissue lysate 20 µg

Lane 2:
Human colon cancer tissue lysate 20 µg

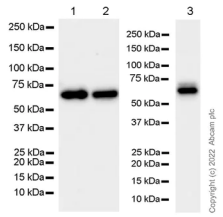
Lane 3:
Human lu cancer tissue lysate 20 µg

Lane 4:
Human skeletal muscle lysate 20 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/5000 dilution

Exposure time: 3s



Western blot - Anti-CKAP4 antibody [EPR25713-62] (BSA and Azide free) (ab302540)

This data was developed using ab302539, the same antibody clone in a different buffer formulation. Blocking and diluting buffer and concentration: 5% NFDM/TBST Lysates were freshly made and used immediately.
All lanes:
Western blot - Anti-CKAP4 antibody [EPR25713-62] (ab302539) at 1/1000 dilution

Lane 1:
NIH/3T3 (mouse embryonic fibroblast), whole cell lysate 20 µg

Lane 2:
PC-12 (rat adrenal gland pheochromocytoma), whole cell lysate 20 µg

Lane 3:
A549 (human lu carcinoma epithelial cell), whole cell lysate 20 µg

Secondary

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

Observed band size: 60 kDa, 63 kDa

Exposure time: 10s

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