abcam

ab237784

Anti-FKBP52 antibody [EPR21125] - 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	EPR21125
Purification technique	Affinity purification Protein A
Concentration	0.999 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	-

Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Target data

See full target information FKBP4

Function Immunophilin protein with PPIase and co-chaperone activities. Component of steroid receptors heterocomplexes through interaction with heat-shock protein 90 (HSP90). May play a role in the intracellular trafficking of heterooligomeric forms of steroid hormone receptors between cytoplasm and nuclear compartments. The isomerase activity controls neuronal growth cones via regulation of TRPC1 channel opening. Also acts as a regulator of microtubule dynamics by inhibiting MAPT/TAU ability to promote microtubule assembly. May have a protective role against oxidative stress in mitochondria.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab237784 is the carrier-free version of ab230951.

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.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	The immunophilin protein FKBP52 also known as FK506-binding protein 4 (FKBP4) weighs approximately 52 kDa. This protein acts as a peptidyl-prolyl cis-trans isomerase which assists in protein folding and stability. FKBP52 is widely expressed in cells with high levels in tissues like the brain testis and kidneys indicating its role in various cellular processes. As part of its mechanical role FKBP52 interacts with heat shock proteins aiding in the regulation of protein homeostasis.
Biological function summary	FKBP52 functions as a co-chaperone in steroid receptor complexes. It partners with heat shock protein 90 (HSP90) to form a functional complex that modulates the activity of steroid hormone receptors. These receptors such as the androgen and glucocorticoid receptors rely on FKBP52 for proper regulation and transport within the cell. FKBP52 also plays a part in cellular signaling influencing processes like cell growth and differentiation through its interaction with these receptors.
Pathways	FKBP52 features prominently in steroid hormone signaling and stress response pathways. It is critical to the maturation and transport of steroid hormone receptors directly affecting their downstream gene regulation. The protein interacts closely with HSP90 and other immunophilins like FKBP51 which also plays roles in similar pathways but may have differing regulatory effects. This interaction demonstrates how FKBP52's function integrates into broader cellular signaling networks influencing pathways like the glucocorticoid receptor signaling pathway.
Associated diseases and disorders	FKBP52 connects significantly to prostate cancer and Alzheimer's disease. In prostate cancer its modulation of androgen receptor activity is critical. Abnormal regulation of these receptors can contribute to cancer progression. Moreover in Alzheimer's disease FKBP52 influences the stability and function of tau protein which is linked to neurofibrillary tangle formation a hallmark of the disease. Its interaction with tau indicates a potential therapeutic target for intervention in Alzheimer's progression.

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

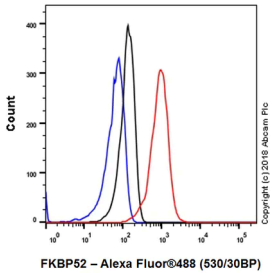
We do not recommend this combination. It is not covered by our product promise.

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.

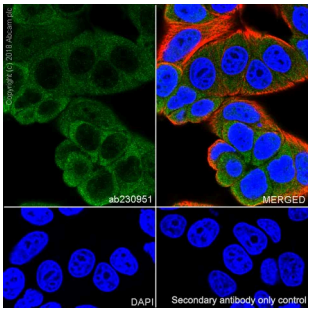
4 product images



Flow Cytometry (Intracellular) - Anti-FKBP52 antibody [EPR21125] - BSA and Azide free (ab237784)

FKBP52 Flow Cytometry (Intracellular) staining using rabbit Anti-FKBP52 antibody

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized HeLa (human epithelial cell line from cervix adenocarcinoma) cell line labeling FKBP52 with ab230951 at 1/500 dilution (red) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (ab172730) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) at 1/2000 dilution was used as the secondary antibody.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab230951).



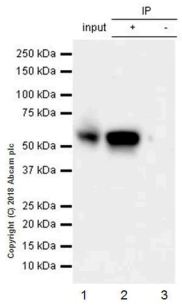
Immunocytochemistry/ Immunofluorescence - Anti-FKBP52 antibody [EPR21125] - BSA and Azide free (ab237784)

FKBP52 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-FKBP52 antibody

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized MCF7 (human breast adenocarcinoma cell line) cells labeling FKBP52 with ab230951 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic and weakly nuclear staining in MCF7 cell line.
Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (ab195889) at 1/200 dilution (red). The nuclear counter stain is DAPI (blue).

Secondary antibody only control: Used PBS instead of the primary antibody, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab230951).



Immunoprecipitation - Anti-FKBP52 antibody [EPR21125] - BSA and Azide free (ab237784)

FKBP52 was immunoprecipitated from 0.35 mg of HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate with ab230951 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab230951 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/5000 dilution.
Lane 1: HeLa whole cell lysate 10 µg (Input).

Lane 2: ab230951 IP in HeLa whole cell lysate.

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab230951 in HeLa whole cell lysate.

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

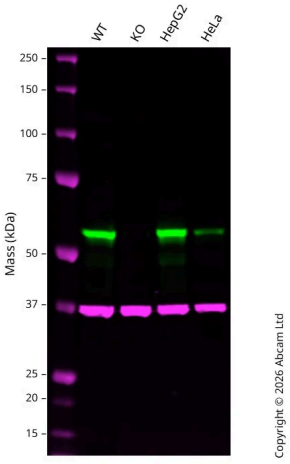
Exposure time: 30 seconds.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab230951).

All lanes:
Immunoprecipitation - Anti-FKBP52 antibody [EPR21125] (ab230951)

Predicted band size: 52 kDa

Observed band size: 52 kDa



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Western blot - Anti-FKBP52 antibody [EPR21125] - BSA and Azide free (ab237784)

FKBP52 Western blot staining using rabbit Anti-FKBP52 antibody

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab230951).

Western blot: Anti-FKBP52 antibody [EPR21125] ab230951 staining at 1/1000 dilution, shown in green; Mouse anti GAPDH ab8245 loading control staining at 1/20000 dilution, shown in magenta. A band was observed at 55 kDa in Wild-type HCT 116 cell line with no signal observed at this size in FKBP4 knockout HCT 116 cell line. To generate this image, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 5% Milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit 800CW and Goat anti-Mouse 680RD at 1/20,000 dilution.
All lanes:
Western blot - Anti-FKBP52 antibody [EPR21125] (ab230951) at 1/1000 dilution

Lane 1:
Wild-type HCT 116 cell lysate at 20 µg

Lane 2:
Western blot - Human FKBP4 knockout HCT116 cell line (ab300946) at 20 µg

Lane 3:
LnCAP cell lysate at 20 µg

Lane 4:
THP-1 cell lysate at 20 µg

Secondary

All lanes:
Goat anti-Rabbit 800CW & Goat anti-Mouse 680RD at 1/20000 dilution

Performed under reducing conditions.

Predicted band size: 52 kDa

Observed band size: 55 kDa

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