abcam

Product datasheet

# Anti-FKBP52 antibody [EPR21125] ab230951

重组 RabMAb

6 图像

## 概述

| | |
|---|---|
| **产品名称** | Anti-FKBP52抗体[EPR21125] |
| **描述** | 兔单克隆抗体[EPR21125] to FKBP52 |
| **宿主** | Rabbit |
| **经测试应用** | **适用于:** Flow Cyt (Intra), WB, ICC/IF, IP |
| **种属反应性** | **与反应:** Human |
| **免疫原** | Recombinant fragment. This information is proprietary to Abcam and/or its suppliers. |
| **阳性对照** | WB: K562, HeLa and HEK-293T cell lysate; Human fetal brain lysate. ICC/IF: HeLa and MCF7 cells. Flow Cyt (intra): HeLa cells. IP: HeLa cell lysate. |
| **常规说明** | This product is a recombinant monoclonal antibody, which offers several advantages including:<br>- High batch-to-batch consistency and reproducibility<br>- Improved sensitivity and specificity<br>- Long-term security of supply<br>- Animal-free production<br>For more information **see here**.<br>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. |

## 性能

| | |
|---|---|
| **形式** | Liquid |
| **存放说明** | 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. |
| **存储溶液** | pH: 7.2<br>Preservative: 0.01% Sodium azide<br>Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA |
| **纯度** | Protein A purified |
| **克隆** | 单克隆 |
| **克隆编号** | EPR21125 |
| **同种型** | IgG |

## 应用

**The Abpromise guarantee** **Abpromise™承诺保证使用ab230951于以下的经测试应用**

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

| 应用 | Ab评论 | 说明 |
|---|---|---|
| **Flow Cyt (Intra)** | | 1/500. |
| **WB** | | 1/1000. Detects a band of approximately 52 kDa (predicted molecular weight: 52 kDa). |
| **ICC/IF** | | 1/100. |
| **IP** | | 1/30. |

## 靶标

**功能** Immunophilin protein with PPIase and co-chaperone activities (By similarity). Component of unliganded 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 (By similarity). The isomerase activity controls neuronal growth cones via regulation of TRPC1 channel opening. Acts also as a regulator of microtubule dynamics by inhibiting MAPT/TAU ability to promote microtubule assembly.

**组织特异性** Widely expressed.

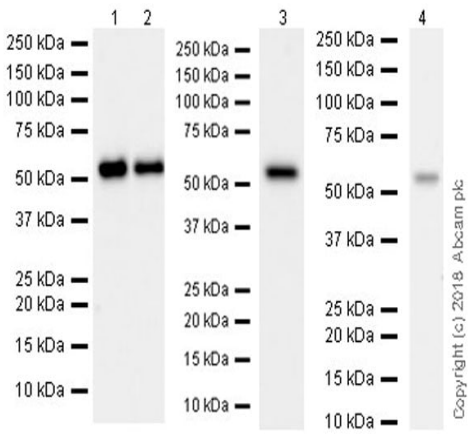
**序列相似性** Contains 2 PPIase FKBP-type domains.
Contains 3 TPR repeats.

**结构域** The PPIase activity is mainly due to the fisrt PPIase FKBP-type domain (1-138 AA).
The C-terminal region (AA 375-458) is required to prevent tubulin polymerization.
The chaperone activity resides in the C-terminal region, mainly between amino acids 264 and 400.

**翻译后修饰** Phosphorylation by CK2 results in loss of HSP90 binding activity (By similarity). Phosphorylated upon DNA damage, probably by ATM or ATR.

**细胞定位** Cytoplasm > cytosol. Nucleus. Cytoplasm > cytoskeleton.

## 图片




Western blot - Anti-FKBP52 antibody [EPR21125] (ab230951)

**Lanes 1-2 :** Anti-FKBP52 antibody [EPR21125] (ab230951) at 1/5000 dilution
**Lanes 3-4 :** Anti-FKBP52 antibody [EPR21125] (ab230951) at 1/1000 dilution

**Lane 1 :** K562 (human chronic myelogenous leukemia cell line from bone marrow) whole cell lysate at 20 µg
**Lane 2 :** HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate at 20 µg
**Lane 3 :** HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate at 20 µg
**Lane 4 :** Human fetal brain lysate at 10 µg

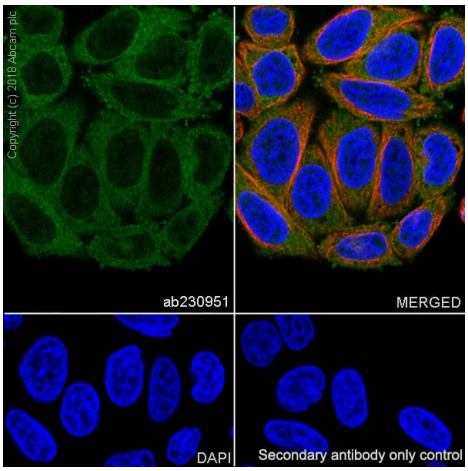
**Secondary**
**Lanes 1-3 :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution
**Lane 4 :** VeriBlot for IP Detection Reagent (HRP) (**ab131366**) at 1/1000 dilution

**Predicted band size:** 52 kDa
**Observed band size:** 52 kDa

**Blocking/Diluting buffer:** 5% NFDM/TBST.

**Exposure times:** Lane 1-2: 48 seconds; Lane 3: 30 seconds; Lane 4: 3 minutes.

The molecular mass observed is consistent with what has been described in the literature (PMID: 26065228).

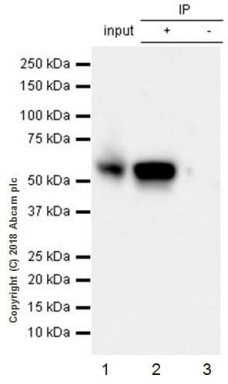



Immunocytochemistry/ Immunofluorescence - Anti-FKBP52 antibody [EPR21125] (ab230951)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (human epithelial cell line from cervix adenocarcinoma) 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 HeLa 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.




Immunoprecipitation - Anti-FKBP52 antibody [EPR21125] (ab230951)

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.

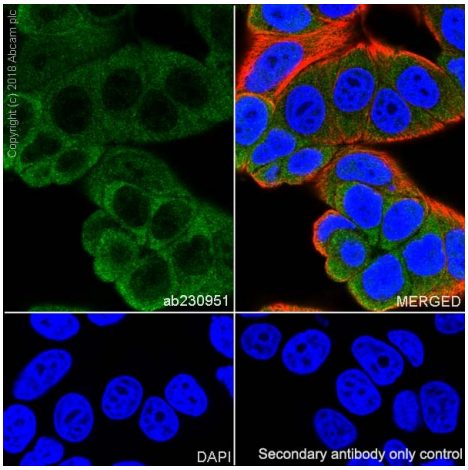
Lane 1: HeLa whole cell lysate 10 µg (Input).

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.

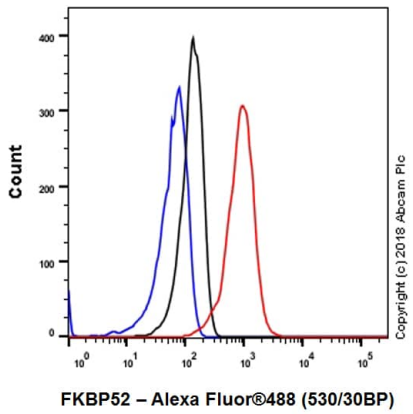



Immunocytochemistry/ Immunofluorescence - Anti-FKBP52 antibody [EPR21125] (ab230951)

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.

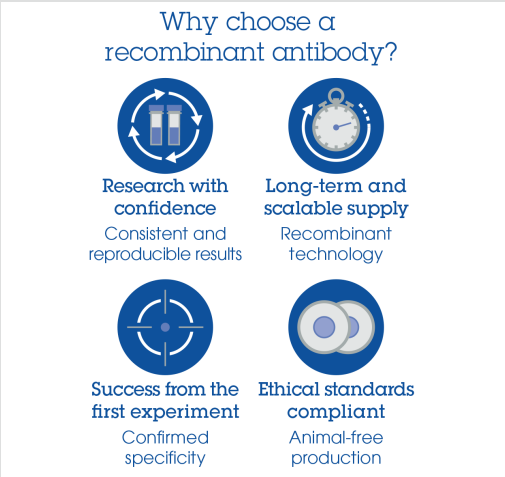
Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (**ab195889**) at 1/200 dilution (red). The nuclear counter stain is DAPI (blue).

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.




Flow Cytometry (Intracellular) - Anti-FKBP52 antibody [EPR21125] (ab230951)

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¡½ 488) (**ab150077**) at 1/2000 dilution was used as the secondary antibody.




Anti-FKBP52 antibody [EPR21125] (ab230951)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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