abcam

Product datasheet

# Anti-FKBP38 antibody [EPR7441(2)] - BSA and Azide free ab248311

KO VALIDATED Recombinant RabMAb

5 Images

## Overview

| | |
|---|---|
| **Product name** | Anti-FKBP38 antibody [EPR7441(2)] - BSA and Azide free |
| **Description** | Rabbit monoclonal [EPR7441(2)] to FKBP38 - BSA and Azide free |
| **Host species** | Rabbit |
| **Tested applications** | **Suitable for:** ICC/IF, WB, Flow Cyt (Intra)<br>**Unsuitable for:** IHC-P or IP |
| **Species reactivity** | **Reacts with:** Human |
| **Immunogen** | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| **Positive control** | Flow Cyt (intra): HeLa cells |
| **General notes** | ab248311 is the carrier-free version of **ab129113**.<br><br>Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.<br><br>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.<br><br>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.<br><br>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.<br><br>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**. |

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

## Properties

| | |
|---|---|
| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Store at +4°C. Do Not Freeze. |
| **Storage buffer** | pH: 7.2<br>Constituent: PBS |
| **Carrier free** | Yes |
| **Purity** | Affinity purified |
| **Clonality** | Monoclonal |
| **Clone number** | EPR7441(2) |
| **Isotype** | IgG |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab248311 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

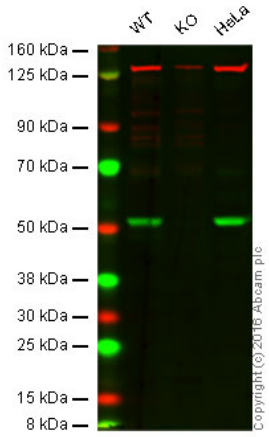
| Application | Abreviews | Notes |
|---|---|---|
| **ICC/IF** | | Use at an assay dependent concentration. |
| **WB** | | Use at an assay dependent concentration. Detects a band of approximately 53 kDa (predicted molecular weight: 45 kDa). |
| **Flow Cyt (Intra)** | | Use at an assay dependent concentration. |

**Application notes** Is unsuitable for IHC-P or IP.

## Target

| | |
|---|---|
| **Function** | Constitutively inactive PPiase, which becomes active when bound to calmodulin and calcium. Seems to act as a chaperone for BCL2, targets it to the mitochondria and modulates its phosphorylation state. The BCL2/FKBP8/calmodulin/calcium complex probably interferes with the binding of BCL2 to its targets. The active form of FKBP8 may therefore play a role in the regulation of apoptosis. |
| **Tissue specificity** | Widely expressed. Highest levels seen in the brain. |
| **Sequence similarities** | Contains 1 PPIase FKBP-type domain.<br>Contains 3 TPR repeats. |
| **Cellular localization** | Mitochondrion membrane. |

## Images




Western blot - Anti-FKBP38 antibody [EPR7441(2)] - BSA and Azide free (ab248311)

This data was developed using **ab129113**, the same antibody clone in a different buffer formulation.

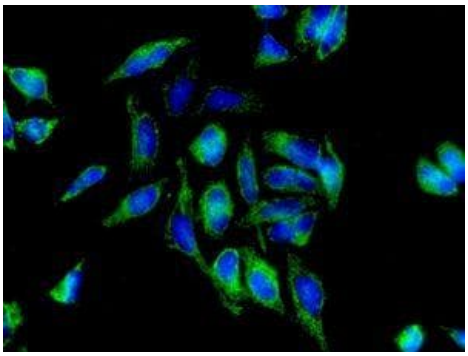
**Lane 1:** Wild-type HAP1 cell lysate (20 µg)

**Lane 2:** FKBP38 knockout HAP1 cell lysate (20 µg)

**Lane 3:** HeLa cell lysate (20 µg)

**Lanes 1 - 3:** Merged signal (red and green). Green - **ab129113** observed at 51 kDa. Red - loading control, **ab18058**, observed at 124 kDa.

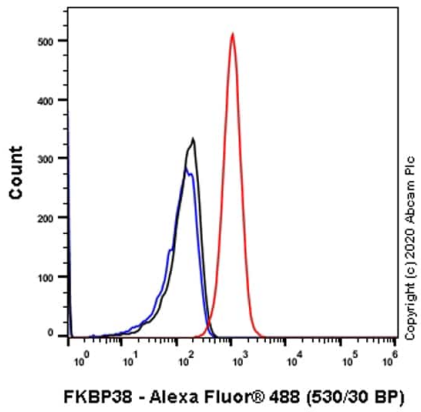
**ab129113** was shown to specifically react with FKBP38 when FKBP38 knockout samples were used. Wild-type and FKBP38 knockout samples were subjected to SDS-PAGE. **ab129113** and **ab18058** (loading control to Vinculin) were diluted 1/1000 and 1/10000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



Immunocytochemistry/ Immunofluorescence - Anti-FKBP38 antibody [EPR7441(2)] - BSA and Azide free (ab248311)

This data was developed using **ab129113**, the same antibody clone in a different buffer formulation.

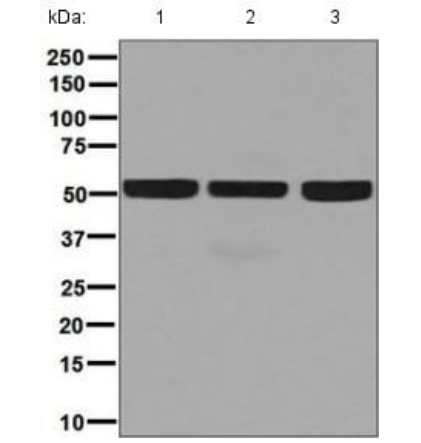
**ab129113**, at 1/100 dilution, staining FKBP38 in HeLa cells by Immunofluorescence.




Flow Cytometry (Intracellular) - Anti-FKBP38 antibody [EPR7441(2)] - BSA and Azide free (ab248311)

This data was developed using **ab129113**, the same antibody clone in a different buffer formulation.

Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling FKBP38 with **ab129113** at 1/20 dilution (10 µg/mL) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).




Western blot - Anti-FKBP38 antibody [EPR7441(2)] - BSA and Azide free (ab248311)

**All lanes :** Anti-FKBP38 antibody [EPR7441(2)] (**ab129113**) at 1/1000 dilution

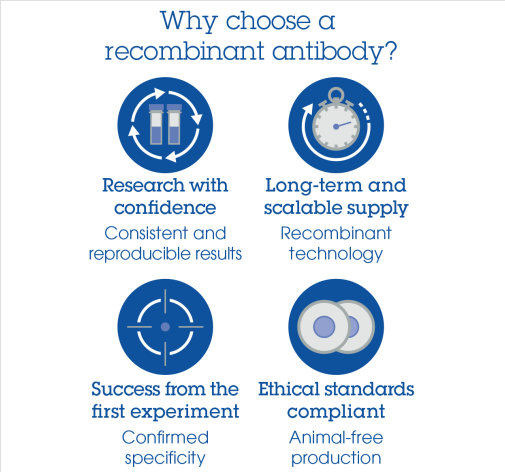
**Lane 1 :** HeLa cell lysate
**Lane 2 :** Jurkat cell lysate
**Lane 3 :** 293T cell lysate

Lysates/proteins at 10 µg per lane.

**Secondary**
**All lanes :** Goat anti-Rabbit HRP at 1/2000 dilution

**Predicted band size:** 45 kDa

This data was developed using **ab129113**, the same antibody clone in a different buffer formulation.




Anti-FKBP38 antibody [EPR7441(2)] - BSA and Azide free (ab248311)

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

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