abcam

Product datasheet

Anti-FKBP12 antibody [EPR3888] ab92459

KO VALIDATED Recombinant RabMAb

2 Abreviews 1 References 4 Images

Overview

Product name	Anti-FKBP12 antibody [EPR3888]
Description	Rabbit monoclonal [EPR3888] to FKBP12
Host species	Rabbit
Tested applications	**Suitable for:** WB **Unsuitable for:** Flow Cyt,ICC/IF,IHC-P or IP
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic peptide within Human FKBP12 aa 50-150 (C terminal). The exact sequence is proprietary.
Positive control	U937 and SH-SY5Y cell lysates. Fetal brain, human brain lysate, mouse heart lysate and rat heart tissue lysates.
General notes	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 production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR3888
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab92459 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
WB	★★★★☆ **(2)**	1/2000. Predicted molecular weight: 12 kDa. **For unpurified use at 1/10000 - 1/50000**

Application notes Is unsuitable for Flow Cyt,ICC/IF,IHC-P or IP.

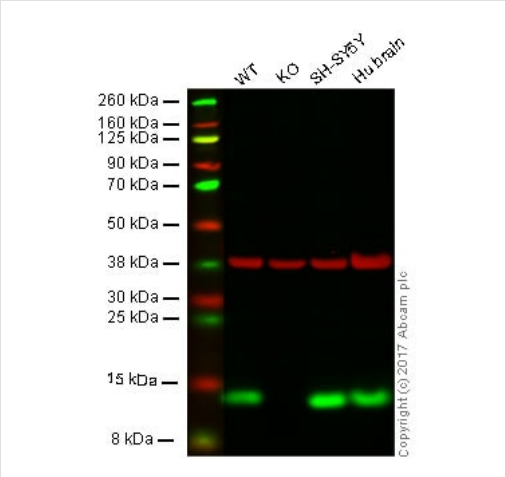
Target

Function May play a role in modulation of ryanodine receptor isoform-1 (RYR-1), a component of the calcium release channel of skeletal muscle sarcoplasmic reticulum. There are four molecules of FKBP12 per skeletal muscle RYR. PPIases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides.

Sequence similarities Belongs to the FKBP-type PPIase family. FKBP1 subfamily.
Contains 1 PPIase FKBP-type domain.

Cellular localization Cytoplasm.

Images

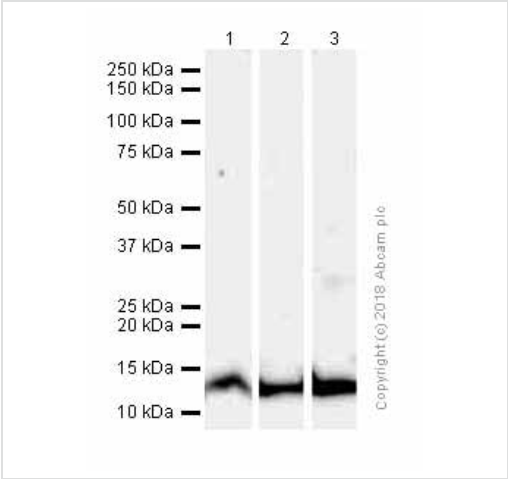


Western blot - Anti-FKBP12 antibody [EPR3888] (ab92459)

Lane 1: Wild-type HAP1 whole cell lysate (20 µg)
Lane 2: FKBP12 knockout HAP1 whole cell lysate (20 µg)
Lane 3: SH-SY5Y whole cell lysate (20 µg)
Lane 4: Human brain whole cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab92459 observed at 12 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

ab92459 was shown to specifically react with FKBP12 in wild-type HAP1 cells as signal was lost in FKBP12 knockout cells. Wild-type and FKBP12 knockout samples were subjected to SDS-PAGE. Ab92459 and **ab9484** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/10000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-FKBP12 antibody [EPR3888] (ab92459)

All lanes : Anti-FKBP12 antibody [EPR3888] (ab92459) at 1/2000 dilution

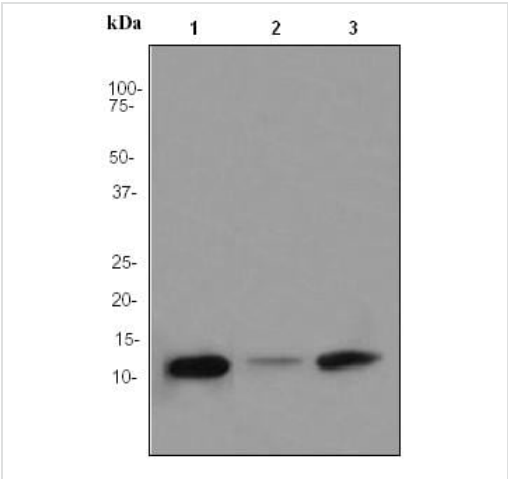
Lane 1 : Human brain lysate
Lane 2 : Mouse heart lysate
Lane 3 : Rat heart lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 12 kDa
Observed band size: 12 kDa

Blocking Buffer and concentration: 5% NFDM/TBST



Western blot - Anti-FKBP12 antibody [EPR3888] (ab92459)

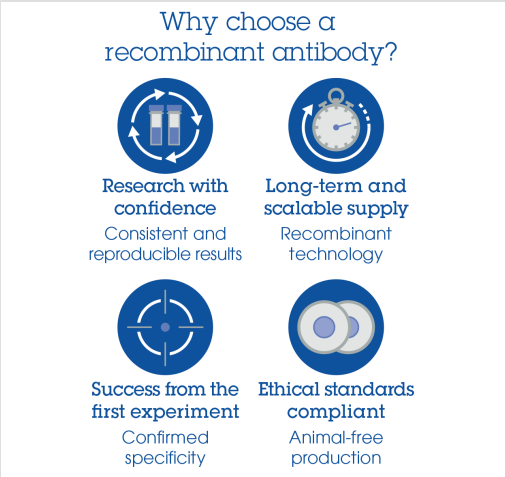
All lanes : Anti-FKBP12 antibody [EPR3888] (ab92459) at 1/10000 dilution

Lane 1 : Fetal brain lysate
Lane 2 : U937 cell lysate
Lane 3 : SH-SY5Y cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : HRP labelled goat anti-rabbit IgG at 1/2000 dilution

Predicted band size: 12 kDa



Anti-FKBP12 antibody [EPR3888] (ab92459)

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