

## Product datasheet

# Anti-FKBP12 antibody [EPR3888] ab92459

**KO VALIDATED** Recombinant RabMAB

★★★★☆ 2 Abreviews 4 Images

### Overview

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Anti-FKBP12 antibody [EPR3888]  |
| <b>Description</b>         | Rabbit monoclonal [EPR3888] to FKBP12   |
| <b>Host species</b>        | Rabbit  |
| <b>Tested applications</b> | <b>Suitable for:</b> WB<br><b>Unsuitable for:</b> Flow Cyt, ICC, IHC-P or IP  |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Human<br><b>Predicted to work with:</b> Mouse, Rat  |
| <b>Immunogen</b>           | Synthetic peptide within Human FKBP12 aa 50-150 (C terminal). The exact sequence is proprietary.  |
| <b>Positive control</b>    | U937 and SH-SY5Y cell lysates. Fetal brain, human brain lysate, mouse heart lysate and rat heart tissue lysates.  |
| <b>General notes</b>       | <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAB<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAB<sup>®</sup> patents</a>.</p> <p><b>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</b></p> |

### Properties

|                             |  |
|-----------------------------|--|
| <b>Form</b>                 | Liquid   |
| <b>Storage instructions</b> | Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C. |
| <b>Storage buffer</b>       | pH: 7.20   |

|                     |  |
|---------------------|--|
|                     | Preservative: 0.01% Sodium azide                                 |
|                     | Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA |
| <b>Purity</b>       | Protein A purified   |
| <b>Clonality</b>    | Monoclonal   |
| <b>Clone number</b> | EPR3888  |
| <b>Isotype</b>      | 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.

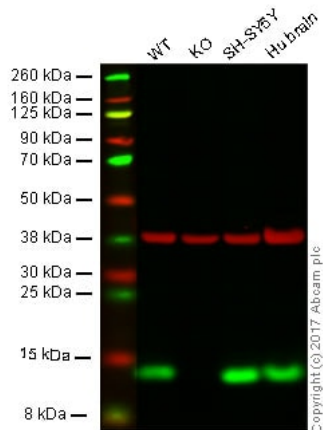
| Application | Abreviews | Notes   |
|-------------|-----------|---|
| <b>WB</b>   | ★★★★★ (2) | 1/2000. Predicted molecular weight: 12 kDa.<br><b>For unpurified use at 1/10000 - 1/50000</b> |

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

## Target

|                              |   |
|------------------------------|---|
| <b>Function</b>              | 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. PPlases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides. |
| <b>Sequence similarities</b> | Belongs to the FKBP-type PPlase family. FKBP1 subfamily.<br>Contains 1 PPlase FKBP-type domain.   |
| <b>Cellular localization</b> | Cytoplasm.  |

## Images



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

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

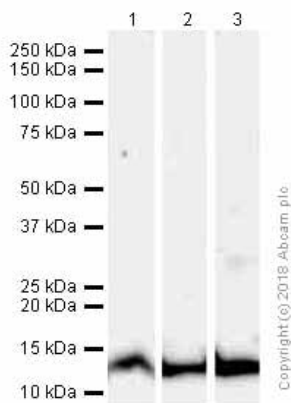
**Lane 2:** FKBP12 knockout HAP1 whole cell lysate (20 µg)

**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.

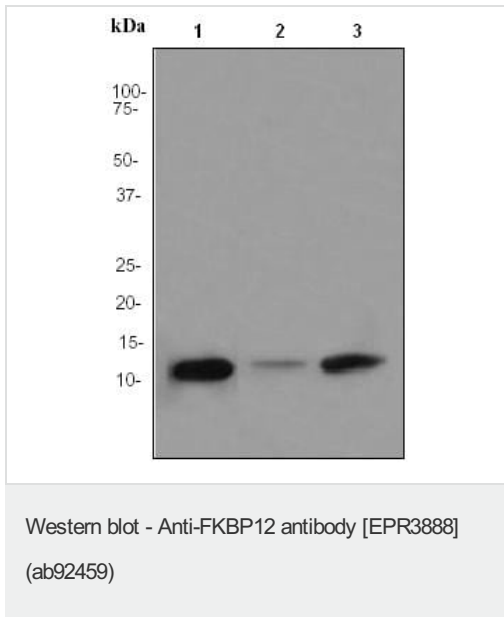
### Secondary

**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% NFD/MTBST



**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

Why choose a recombinant antibody?

|  |  |
|--|--|
|  <p><b>Research with confidence</b><br/>Consistent and reproducible results</p> |  <p><b>Long-term and scalable supply</b><br/>Recombinant technology</p> |
|  <p><b>Success from the first experiment</b><br/>Confirmed specificity</p>      |  <p><b>Ethical standards compliant</b><br/>Animal-free production</p>   |

Anti-FKBP12 antibody [EPR3888] (ab92459)

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

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