


## Product datasheet

# Anti-FKBP52 antibody [EPR6618] ab129097

Recombinant **RabMAb**

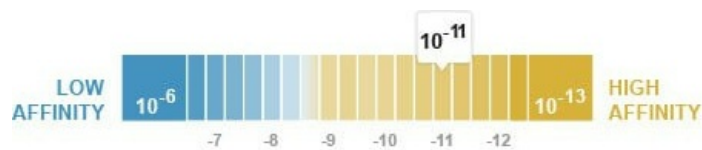
[7 References](#) [6 Images](#)

### Overview

<b>Product name</b>	Anti-FKBP52 antibody [EPR6618]
<b>Description</b>	Rabbit monoclonal [EPR6618] to FKBP52
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, ICC/IF <b>Unsuitable for:</b> IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
<b>Immunogen</b>	Synthetic peptide within Human FKBP52 aa 1-100. The exact sequence is proprietary.
<b>Positive control</b>	HeLa, Jurkat, K562, and MCF7 cell lysates; Human colon and kidney tissues.
<b>General notes</b>	This product is a recombinant monoclonal antibody, which offers several advantages including: <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>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
<b>Dissociation constant (K<sub>D</sub>)</b>	K <sub>D</sub> = 9.40 x 10 <sup>-11</sup> M



[Learn more about K<sub>D</sub>](#)

<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR6618
<b>Isotype</b>	IgG

## Applications

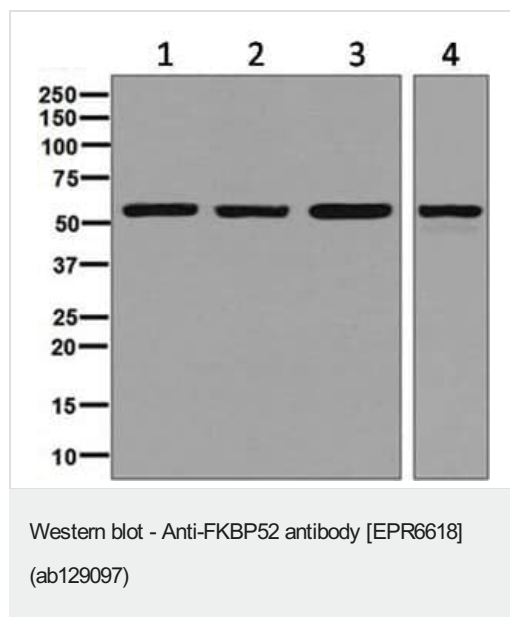
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab129097 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>WB</b>		1/1000 - 1/10000. Detects a band of approximately 52 kDa (predicted molecular weight: 52 kDa).
<b>IHC-P</b>		1/250 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
<b>ICC/IF</b>		1/50 - 1/100.

**Application notes** Is unsuitable for IP.

## Target

<b>Function</b>	Immunophilin protein with PPase 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.
<b>Tissue specificity</b>	Widely expressed.
<b>Sequence similarities</b>	Contains 2 PPase FKBP-type domains. Contains 3 TPR repeats.
<b>Domain</b>	The PPase activity is mainly due to the first PPase 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.
<b>Post-translational modifications</b>	Phosphorylation by CK2 results in loss of HSP90 binding activity (By similarity). Phosphorylated upon DNA damage, probably by ATM or ATR.
<b>Cellular localization</b>	Cytoplasm > cytosol. Nucleus. Cytoplasm > cytoskeleton.



**All lanes :** Anti-FKBP52 antibody [EPR6618] (ab129097) at 1/1000 dilution

**Lane 1 :** HeLa cell lysates

**Lane 2 :** Jurkat cell lysates

**Lane 3 :** K562 cell lysates

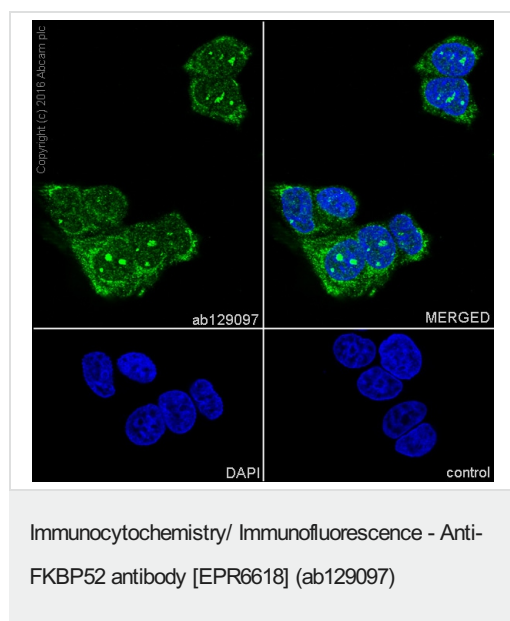
**Lane 4 :** MCF7 cell lysates

Lysates/proteins at 10 µg per lane.

### Secondary

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

**Predicted band size:** 52 kDa



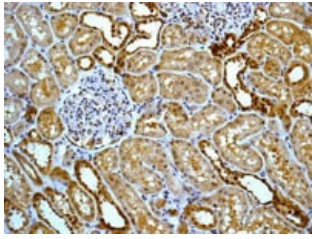
ab129097 staining FKBP52 in MCF-7 (human breast carcinoma) cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with 4% PFA and permeabilized with 0.1% triton X-100. Samples were incubated with primary antibody at a dilution of 1/500. A goat anti rabbit IgG (Alexa Fluor® 488) (**ab150077**) was used as the secondary antibody at a dilution of 1/1000.

DAPI was used as a nuclear counterstain and the negative control was PBS only.



ab129097, at a 1/250 dilution, staining FKBP52 in paraffin embedded Human colon tissue by Immunohistochemistry.

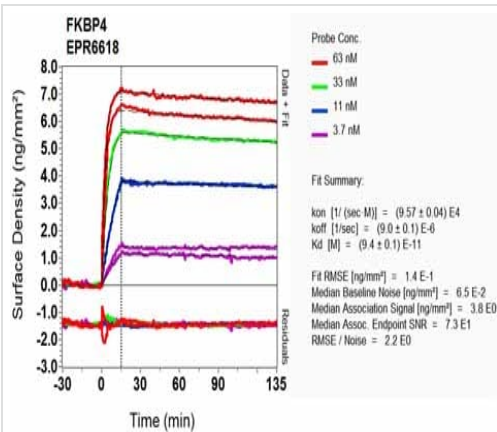
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FKBP52 antibody [EPR6618] (ab129097)

ab129097, at a 1/250 dilution, staining FKBP52 in paraffin embedded Human kidney tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



OI-RD Scanning - Anti-FKBP52 antibody [EPR6618] (ab129097)

Equilibrium dissociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

### Why choose a recombinant antibody?

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**Research with confidence**  
Consistent and reproducible results
- 

**Long-term and scalable supply**  
Recombinant technology
- 

**Success from the first experiment**  
Confirmed specificity
- 

**Ethical standards compliant**  
Animal-free production

Anti-FKBP52 antibody [EPR6618] (ab129097)

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

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