

Product datasheet

Anti-FKBP52 antibody [EPR21120] ab230952

Recombinant RabMAb

5 Images

Overview

Product name	Anti-FKBP52 antibody [EPR21120]
Description	Rabbit monoclonal [EPR21120] to FKBP52
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: K562, MCF7, HeLa, HEK-293T and RAW 264.7 whole cell lysate. Mouse and rat brain lysate. Human fetal kidney lysate. IHC-P: Human breast cancer tissue. Mouse and rat cerebrum tissue.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR21120

Isotype

IgG

Applications

The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab230952 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		1/1000. Detects a band of approximately 52 kDa (predicted molecular weight: 52 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. Use at a 1:4,000 dilution for human samples and a 1:1,000 for mouse and rat samples.

Target

Function

Immunophilin protein with PPlase 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.

Tissue specificity

Widely expressed.

Sequence similarities

Contains 2 PPlase FKBP-type domains.
Contains 3 TPR repeats.

Domain

The PPlase activity is mainly due to the first PPlase 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.

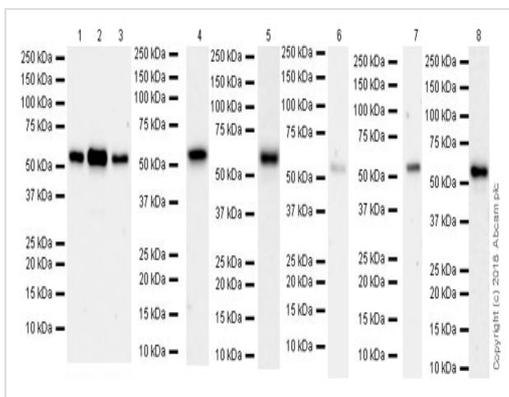
Post-translational modifications

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

Cellular localization

Cytoplasm > cytosol. Nucleus. Cytoplasm > cytoskeleton.

Images



Western blot - Anti-FKBP52 antibody [EPR21120]
(ab230952)

Lanes 1-3 & 7 : Anti-FKBP52 antibody [EPR21120] (ab230952) at 1/5000 dilution

Lanes 4-6 & 8 : Anti-FKBP52 antibody [EPR21120] (ab230952) at 1/1000 dilution

Lane 1 : K562 (human chronic myelogenous leukemia cell line from bone marrow) whole cell lysate at 20 µg

Lane 2 : MCF7 (human breast adenocarcinoma cell line) whole cell lysate at 20 µg

Lane 3 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate at 20 µg

Lane 4 : HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate at 10 µg

Lane 5 : Mouse brain lysate at 10 µg

Lane 6 : Rat brain lysate at 10 µg

Lane 7 : RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate at 10 µg

Lane 8 : Human fetal kidney lysate at 10 µg

Secondary

Lanes 1-7 : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

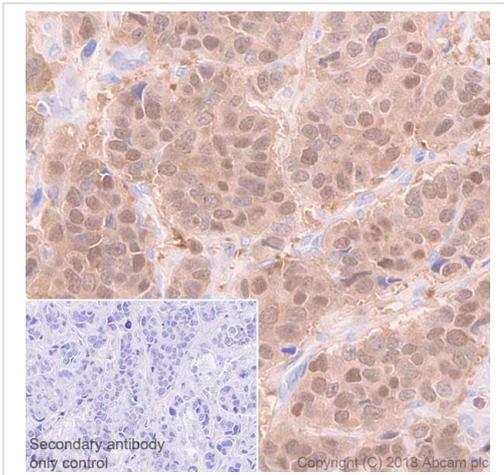
Lane 8 : VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/1000 dilution

Predicted band size: 52 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure times: Lanes 1-3: 81 seconds; Lane 4: 30 second; Lanes 5: 120 seconds; Lane 6-8: 3 minutes.

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



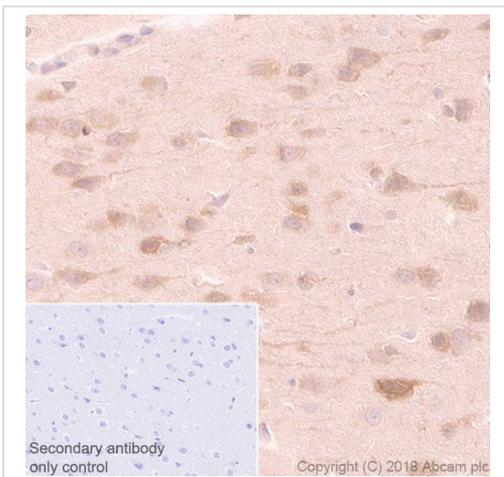
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FKBP52 antibody [EPR21120] (ab230952)

Immunohistochemical analysis of paraffin-embedded human breast cancer tissue labeling FKBP52 with ab230952 at 1/4,000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Cytoplasmic and nuclear staining in human breast cancer (PMID: 19584157) is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

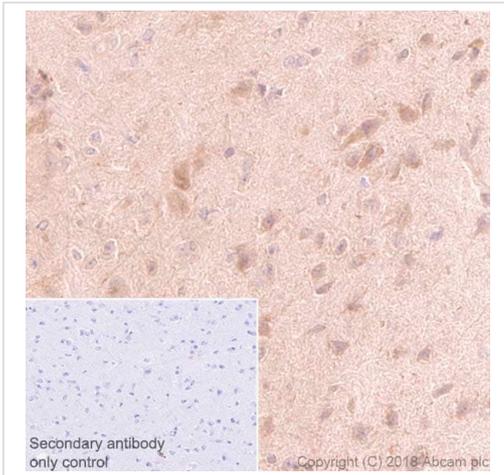


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FKBP52 antibody [EPR21120] (ab230952)

Immunohistochemical analysis of paraffin-embedded rat cerebrum tissue labeling FKBP52 with ab230952 at 1/1,000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Cytoplasmic and nuclear staining in rat cerebrum (PMID: 20133804; PMID: 20422297) is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse cerebrum tissue labeling FKBP52 with ab230952 at 1/1,000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Cytoplasmic and nuclear staining in mouse cerebrum (PMID: 20133804; PMID: 20422297) is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FKBP52 antibody [EPR21120] (ab230952)

Why choose a recombinant antibody?

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

Anti-FKBP52 antibody [EPR21120] (ab230952)

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

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