abcam

Product datasheet

Anti-FKBP51 antibody [EPR6617] ab126715

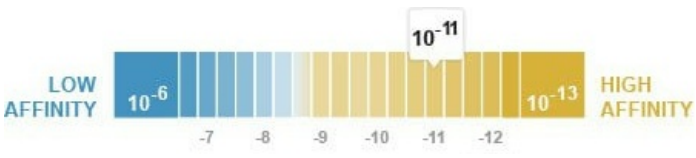
KO VALIDATED Recombinant RabMAb

★★★★★ 1 Abreviews 9 References 11 Images

Overview

Product name	Anti-FKBP51 antibody [EPR6617]
Description	Rabbit monoclonal [EPR6617] to FKBP51
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), WB, IP, IHC-P, ICC/IF
Species reactivity	**Reacts with:** Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: Human colon, Rat stomach and Human prostatic hyperplasia tissue. WB: Human testis tissue; Jurkat, HepG2, Caco-2 and HeLa whole cell lysate (**ab150035**). Wild-type HAP1 whole cell lysate. ICC/IF: Jurkat cells. Flow Cyt (intra): HeLa cells. IP: Jurkat cells.
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.
Dissociation constant (K_D)	K_D = 7.10 x 10 $^{-11}$ M  **Learn more about K_D**
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide

	Constituents: PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR6617
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab126715 in the following tested applications.

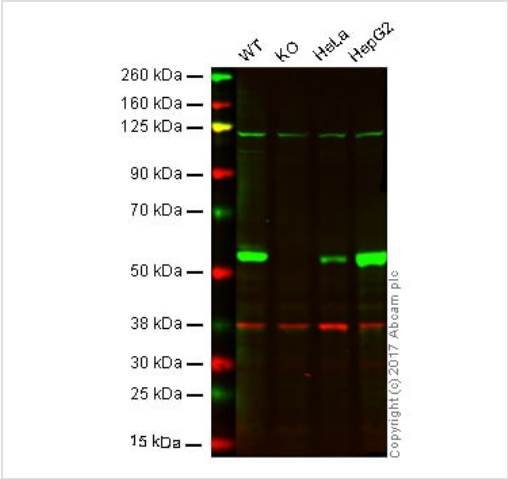
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/10 - 1/100. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (1)	1/1000 - 1/10000. Predicted molecular weight: 51 kDa.
IP		1/10 - 1/100.
IHC-P		1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**. **For unpurified use at 1/50 - 1/100.**
ICC/IF		1/100 - 1/250.

Target

Function	Interacts with functionally mature heterooligomeric progesterone receptor complexes along with HSP90 and TEBP.
Tissue specificity	Widely expressed, enriched in testis compared to other tissues.
Sequence similarities	Contains 2 PPIase FKBP-type domains. Contains 3 TPR repeats.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
Cellular localization	Cytoplasm. Nucleus.

Images

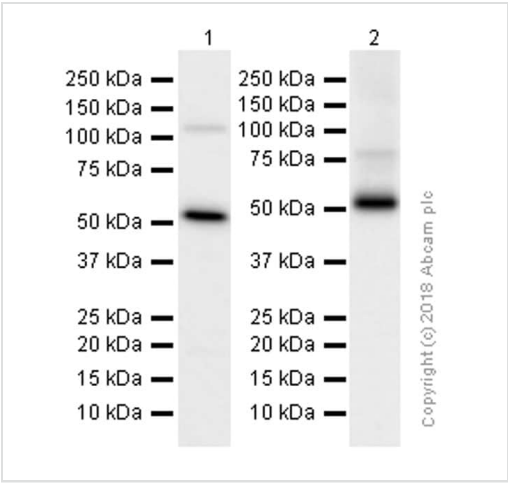


Western blot - Anti-FKBP51 antibody [EPR6617] (ab126715)

Lane 1: Wild-type HAP1 whole cell lysate (20 µg)
Lane 2: FKBP51 knockout HAP1 whole cell lysate (20 µg)
Lane 3: HeLa whole cell lysate (20 µg)
Lane 4: HepG2 whole cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab126715 observed at 51 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

ab126715 was shown to recognize FKBP51 in wild-type cells as signal was lost at the expected MW in FKBP51 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and FKBP51 knockout samples were subjected to SDS-PAGE. Ab126715 and **ab9484** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/1000 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.



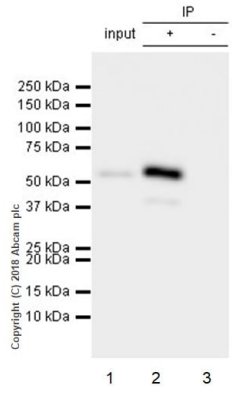
Western blot - Anti-FKBP51 antibody [EPR6617] (ab126715)

All lanes : Anti-FKBP51 antibody [EPR6617] (ab126715) at 1/10000 dilution (Purified)

Lane 1 : Jurkat (Human T cell leukemia T lymphocyte) whole cell lysates at 15 µg
Lane 2 : Rat spleen lysates at 15 µg

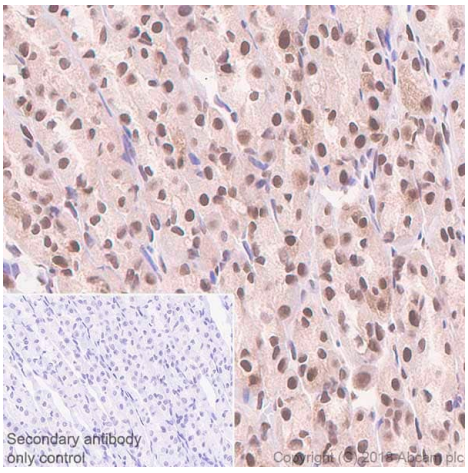
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 51 kDa
Observed band size: 51 kDa



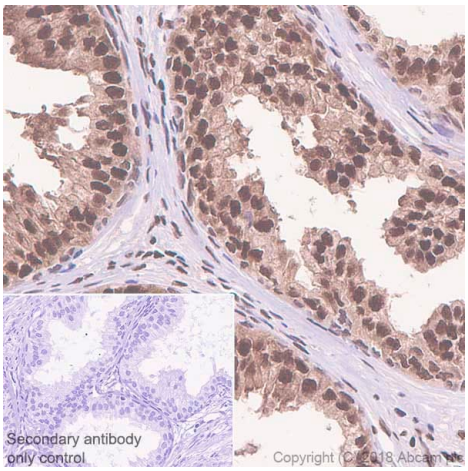
Immunoprecipitation - Anti-FKBP51 antibody [EPR6617] (ab126715)

ab126715 (purified) at 1:20 dilution (2µg) immunoprecipitating FKBP51 in Jurkat whole cell lysate.
Lane 1 (input): Jurkat (Human T cell leukemia T lymphocyte) whole cell lysate 10µg
Lane 2 (+): ab126715 & Jurkat whole cell lysate
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab126715 in Jurkat whole cell lysate
For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used for detection at 1:1000 dilution.
Blocking and diluting buffer: 5% NFDM/TBST.



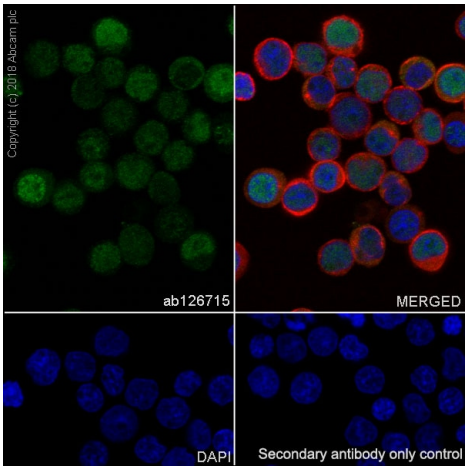
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FKBP51 antibody [EPR6617] (ab126715)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Rat stomach tissue sections labeling FKBP51 with purified ab126715 at 1:250 dilution (1.156 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use)was used as the secondary antibody. Negative control:PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FKBP51 antibody [EPR6617] (ab126715)

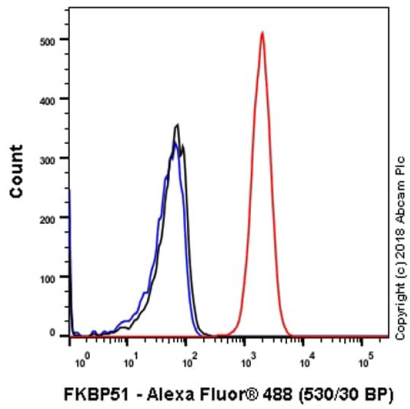
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human prostatic hyperplasia tissue sections labeling FKBP51 with purified ab126715 at 1:250 dilution (1.156 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use)was used as the secondary antibody. Negative control:PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Immunocytochemistry/ Immunofluorescence - Anti-FKBP51 antibody [EPR6617] (ab126715)

Immunocytochemistry/ Immunofluorescence analysis of Jurkat (Human T cell leukemia T lymphocyte) cells labeling FKBP51 with purified ab126715 at 1:100 dilution (2.9 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.

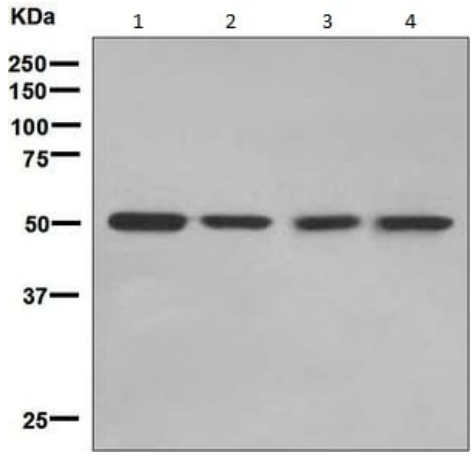
Alexa Fluor® 488 (**ab198978**) and Alexa Fluor® 647 (**ab198979**) conjugated versions are available for this clone.



Flow Cytometry (Intracellular) - Anti-FKBP51 antibody [EPR6617] (ab126715)

Intracellular Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling FKBP51 with purified ab126715 at 1/20 dilution (10µg/ml) (red). Cells were fixed with 4% Paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluorr® 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).

Alexa Fluorr®488 (**ab198978**) and Alexa Fluorr®647 (**ab198979**) conjugated versions are available for this clone.

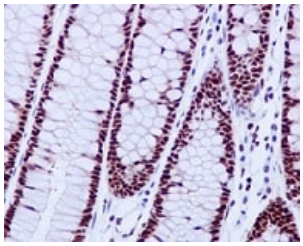


Western blot - Anti-FKBP51 antibody [EPR6617] (ab126715)

All lanes : Anti-FKBP51 antibody [EPR6617] (ab126715) at 1/1000 dilution

Lane 1 : Human testis cell lysate
Lane 2 : Jurkat cell lysate
Lane 3 : Caco-2 cell lysate
Lane 4 : HeLa cell lysate

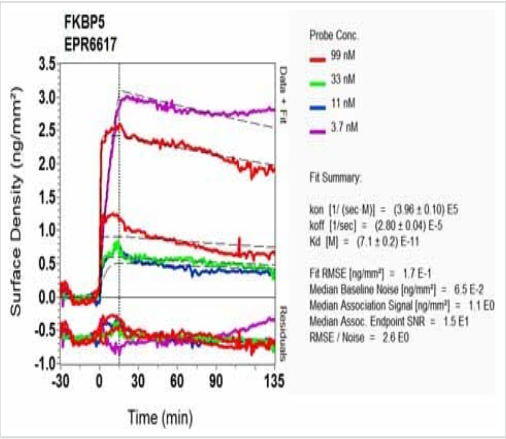
Predicted band size: 51 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FKBP51 antibody [EPR6617] (ab126715)

ab126715, at 1/50 dilution, stains FKBP51 in paraffin embedded human colon tissue by immunohistochemistry.

Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.



OI-RD Scanning - Anti-FKBP51 antibody [EPR6617] (ab126715)

Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D

Anti-FKBP51 antibody [EPR6617] (ab126715)

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