




Anti-FKBP12 antibody ab2918

★★★★★ [22 Abreviews](#) [30 References](#) [画像数 6](#)

製品の概要

製品名	Anti-FKBP12 antibody
製品の詳細	Rabbit polyclonal to FKBP12
由来種	Rabbit
特異性	Detects FK506 binding protein 12 kDa (FKBP12).
アプリケーション	適用あり: IHC-P, ICC/IF
種交差性	交差種: Human 交差が予測される動物種: Rabbit, Cow, Xenopus laevis 
免疫原	Synthetic peptide corresponding to Human FKBP12 aa 1-13 (N terminal). Sequence: GVQVETISPGDGR (Peptide available as ab4935)
	 Run BLAST with  Run BLAST with

特記事項

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
バッファー	Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 99% PBS
精製度	Immunogen affinity purified
一次抗体 備考	Immunophilins are a family of soluble receptors capable of binding to one of two major immunosuppressant agents; cyclosporin A (CsA) or FK506. Proteins that bind FK506 are termed

FK506 Binding Proteins (FKBPs) and those that bind cyclosporin A are called cyclophilins (CyP). Immunophilins function as cis-trans peptidyl-prolyl isomerases (PPlase) whose activity is inhibited by their respective immunosuppressant compounds. Thus, immunophilins accelerate folding of some proteins both in vivo and in vitro by catalyzing slow steps in the initial folding and rearrangement of proline-containing proteins. FKBP12:FK506 complexes inhibit calcineurin, a calcium/calmodulin-dependent serine/threonine phosphatase which blocks T-cell activation by preventing lymphokine gene transcription. FKBP12 also plays a role in intracellular calcium regulation by associating with three types of calcium release channel complexes, cardiac and skeletal ryanodine receptors and the inositol 1,4,5-trisphosphate receptor. In interactions with members of the TGF beta family type I receptors, FKBP12 has been shown to exert an inhibitory effect on the signaling pathway.

ポリ/モノ

ポリクローナル

アイソタイプ

IgG

アプリケーション

The Abpromise guarantee

Abpromise保証は、次のテスト済みアプリケーションにおけるab2918の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
IHC-P	★★★★★ (3)	1/1000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ICC/IF		Use a concentration of 1 µg/ml.

ターゲット情報

機能

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.

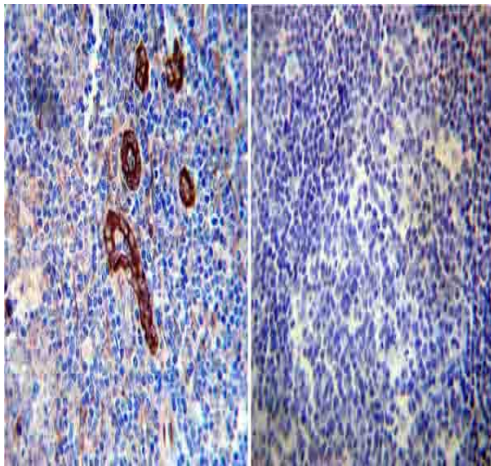
配列類似性

Belongs to the FKBP-type PPlase family. FKBP1 subfamily.
Contains 1 PPlase FKBP-type domain.

細胞内局在

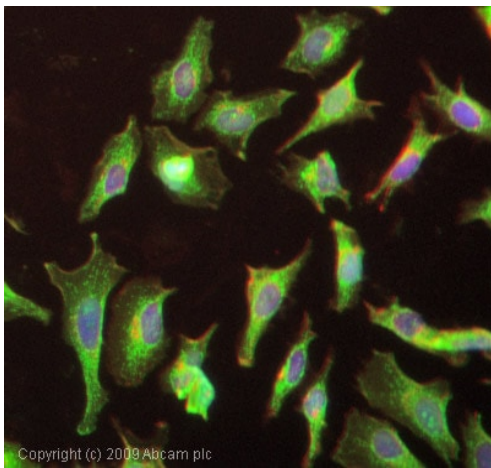
Cytoplasm.

画像



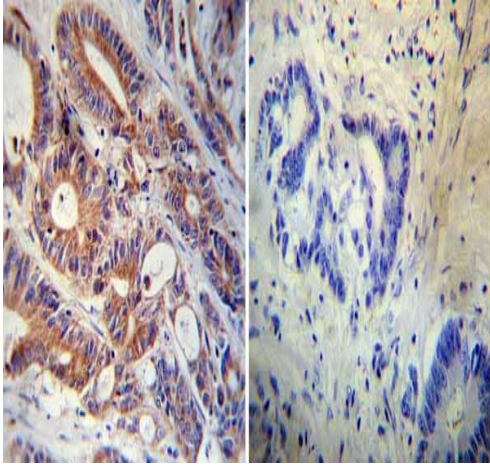
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FKBP12 antibody (ab2918)

Immunohistochemistry was performed on normal biopsies of deparaffinized human tonsil tissue. To expose target proteins, heat induced antigen retrieval was performed using 10mM sodium citrate (pH 6.0) buffer, microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature. Tissues were then probed at a dilution of 1/50 with a rabbit polyclonal antibody recognizing FKBP12 (ab2918) or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed extensively with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP, followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.



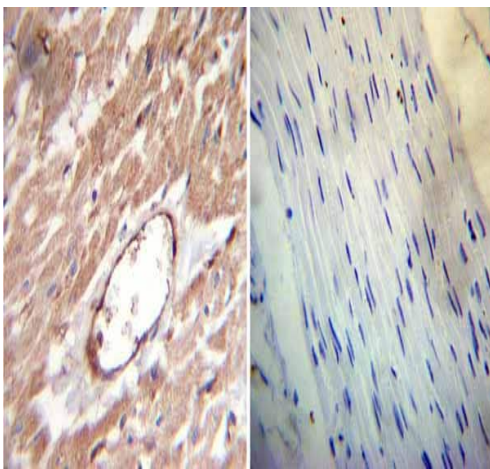
Immunocytochemistry/ Immunofluorescence - Anti-FKBP12 antibody (ab2918)

ICC/IF image of ab2918 stained HepG2 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab2918, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



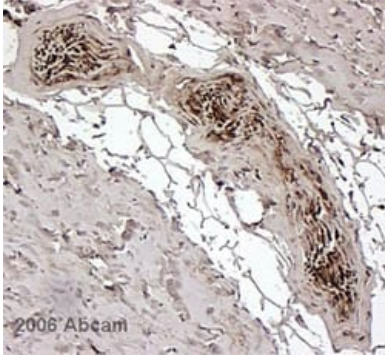
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FKBP12 antibody (ab2918)

Immunohistochemistry was performed on cancer biopsies of deparaffinized human colon carcinoma tissue. To expose target proteins, heat induced antigen retrieval was performed using 10mM sodium citrate (pH 6.0) buffer, microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature. Tissues were then probed at a dilution of 1/200 with a rabbit polyclonal antibody recognizing FKBP12 (ab2918) or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed extensively with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP, followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FKBP12 antibody (ab2918)

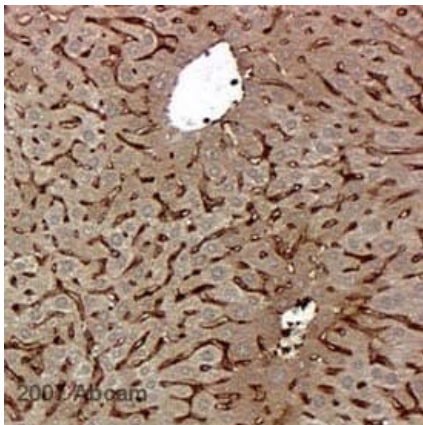
Immunohistochemistry was performed on normal biopsies of deparaffinized human heart tissue. To expose target proteins, heat induced antigen retrieval was performed using 10mM sodium citrate (pH 6.0) buffer, microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature. Tissues were then probed at a dilution of 1/20 with a rabbit polyclonal antibody recognizing FKBP12 (ab2918) or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed extensively with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP, followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FKBP12 antibody (ab2918)

This image is courtesy of an Abreview submitted by Miss gwen lagoda

ab2918 at 1/1000 staining FKBP12 from human penis tissue by IHC-P. The tissue was paraformaldehyde fixed and the slides were incubated in citrate buffer for antigen retrieval and heated for 20 minutes. The tissue was incubated with ab2918 for 24 hours. The secondary antibody used was part of the DAKO ENVISON System. The picture depicts staining of nerve fibers within corporal tissue of the human penis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FKBP12 antibody (ab2918)

This image is courtesy of an Abreview submitted by Miss gwen lagoda

ab2918 at 1/1000 staining mouse heart tissue sections by IHC-P. The tissue was paraformaldehyde fixed, blocked and then a citrate buffer / heat mediated antigen retrieval step was performed. The tissue was incubated with the antibody for 24 hours. An HRP conjugated rabbit polyclonal antibody was used as the secondary.

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