

FKBP12 Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse
Published Species	Rat, Pig, Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to the N-terminal residues G(1) V Q V E T I S P G D G R(13) of human FKBP12.
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2102731

Applications	Tested Dilution	Publications
Western Blot (WB)	1 µg/mL	30 Publications
Immunohistochemistry (IHC)	-	5 Publications
Immunohistochemistry (Paraffin) (IHC (P))	2 µg/mL	-
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	2 Publications
Immunoprecipitation (IP)	Assay-dependent	1 Publication

Product Specific Information

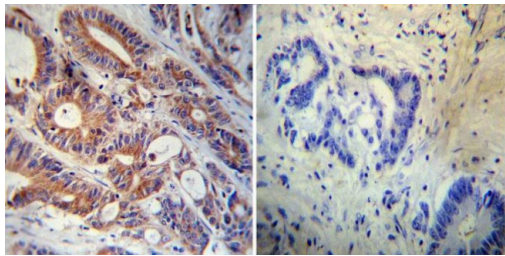
PA1-026A detects FK506 binding protein 12 kDa (FKBP12) in human and mouse tissues.

PA1-026A has been successfully used in Western blot, immunohistochemistry, and immunoprecipitation procedures. By Western blot, this antibody detects a 12 kDa protein representing FKBP12 from rat heart homogenate.

The PA1-026A immunogen is a synthetic peptide corresponding to the N-terminal residues G(1) V Q V E T I S P G D G R(13) of human FKBP12. PA1-026A immunizing peptide (Cat. # PEP-012) is available for use in neutralization and control experiments.

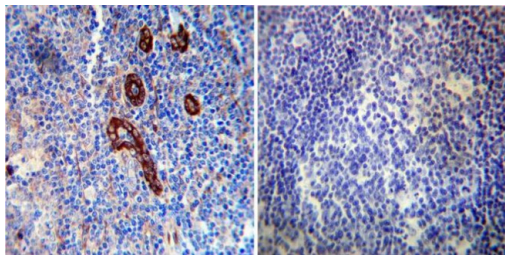
FKBP12 Antibody (PA1-026A) in IHC (P)

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 (pH6.0) 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 (Product # PA1-026A) 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.



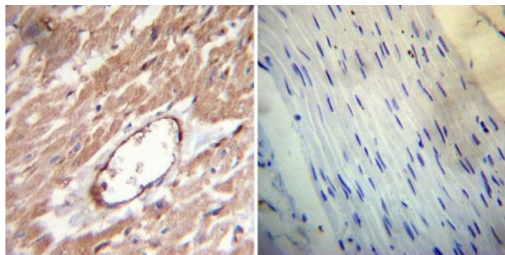
FKBP12 Antibody (PA1-026A) in IHC (P)

Immunohistochemistry was performed on normal deparaffinized human Tonsil tissue. To expose target proteins, heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) 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 (Product # PA1-026A) 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.



FKBP12 Antibody (PA1-026A) in IHC (P)

Immunohistochemistry was performed on normal deparaffinized human Heart tissue. To expose target proteins, heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) 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 (Product # PA1-026A) 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.



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Western Blot (30)

Science advances	Year 2023
Chaperoning of specific tau structure by immunophilin FKBP12 regulates the neuronal resilience to extracellular stress.	
"Published figure using FKBP12 polyclonal antibody (Product # PA1-026A) in Western Blot"	
Authors: Jiang L,Chakraborty P,Zhang L,Wong M,Hill SE,Webber CJ,Libera J,Blair LJ,Wolozin B,Zweckstetter M	
PLoS pathogens	Year 2020
Calcineurin phosphatase activity regulates Varicella-Zoster Virus induced cell-cell fusion.	Species Human
"PA1-026A was used in Western Blotting to demonstrate that calcineurin is a critical host cell factor pivotal in the regulation of VZV induced cell fusion, which is essential for VZV pathogenesis."	Dilution 1:2500
Authors: Zhou M,Kamarshi V,Arvin AM,Oliver SL	

[View more WB references on thermofisher.cn](#)

Immunohistochemistry (5)

Cellular and molecular gastroenterology and hepatology	Year 2022
A Proximal-to-Distal Survey of Healthy Adult Human Small Intestine and Colon Epithelium by Single-Cell Transcriptomics.	
"Published figure using FKBP12 polyclonal antibody (Product # PA1-026A) in Immunohistochemistry"	
Authors: Burclaff J,Bliton RJ,Breau KA,Ok MT,Gomez-Martinez I,Ranek JS,Bhatt AP,Purvis JE,Woosley JT,Magness ST	
Development (Cambridge, England)	Year 2013
Fkbp1a controls ventricular myocardium trabeculation and compaction by regulating endocardial Notch1 activity.	Species Human Mouse
"PA1-026A was used in immunohistochemistry to study the role of Fbbp1a-mediated regulation of Notch1 activity in ventricular myocardial trabeculation and compaction"	
Authors: Chen H,Zhang W,Sun X,Yoshimoto M,Chen Z,Zhu W,Liu J,Shen Y,Yong W,Li D,Zhang J,Lin Y,Li B,VanDusen NJ,Snider P,Schwartz RJ,Conway SJ,Field LJ,Yoder MC,Firulli AB,Carlesso N,Towbin JA,Shou W	

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More applications with references on thermofisher.cn

- IHC (F) (1)
- ICC/IF (2)
- IP (1)

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