

**FKBP4 Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7387C****Specification**

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**FKBP4 Antibody (Center) - Product Information**

Application	WB, FC,E
Primary Accession	<a href="#">Q02790</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	51805
Antigen Region	186-216

**FKBP4 Antibody (Center) - Additional Information****Gene ID** 2288**Other Names**

Peptidyl-prolyl cis-trans isomerase FKBP4, PPIase FKBP4, 51 kDa FK506-binding protein, FKBP51, 52 kDa FK506-binding protein, 52 kDa FKBP, FKBP-52, 59 kDa immunophilin, p59, FK506-binding protein 4, FKBP-4, FKBP59, HSP-binding immunophilin, HBI, Immunophilin FKBP52, Rotamase, Peptidyl-prolyl cis-trans isomerase FKBP4, N-terminally processed, FKBP4, FKBP52

**Target/Specificity**

This FKBP4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 186-216 amino acids from the Central region of human FKBP4.

**Dilution**

WB~~1:1000

FC~~1:10~50

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

FKBP4 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**FKBP4 Antibody (Center) - Protein Information**

**Name** FKBP4

**Synonyms** FKBP52

**Function** Immunophilin protein with PPlase and co-chaperone activities. Component of 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. The isomerase activity controls neuronal growth cones via regulation of TRPC1 channel opening. Also acts as a regulator of microtubule dynamics by inhibiting MAPT/TAU ability to promote microtubule assembly. May have a protective role against oxidative stress in mitochondria.

**Cellular Location**

Cytoplasm, cytosol. Mitochondrion. Nucleus {ECO:0000250|UniProtKB:P30416}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q9QVC8}. Cell projection, axon {ECO:0000250|UniProtKB:Q9QVC8}. Note=Shuttles from mitochondria to nucleus; co-localizes in mitochondria with the glucocorticoid receptor (PubMed:21730050). Colocalized with MAPT/TAU in the distal part of the primary cortical neurons (By similarity) {ECO:0000250|UniProtKB:Q9QVC8, ECO:0000269|PubMed:21730050}

**Tissue Location**

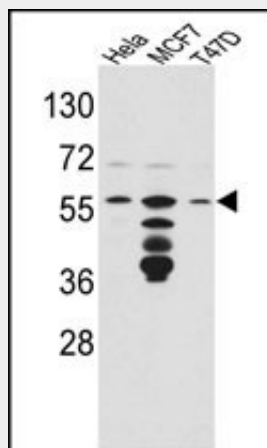
Widely expressed..

**FKBP4 Antibody (Center) - Protocols**

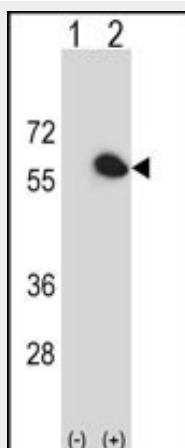
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

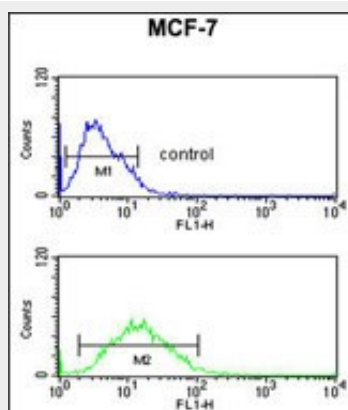
**FKBP4 Antibody (Center) - Images**



Western blot analysis of FKBP4 Antibody (Center) (Cat. #AP7387c) in HeLa, MCF7, T47D cell line lysates (35ug/lane). FKBP4 (arrow) was detected using the purified Pab.



Western blot analysis of FKBP4 (arrow) using rabbit polyclonal FKBP4 Antibody (Center) (Cat. #AP7387c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the FKBP4 gene.



FKBP4 Antibody (Center) (Cat. #AP7387c) flow cytometric analysis of MCF-7 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### FKBP4 Antibody (Center) - Background

FKBP4 is a member of the immunophilin protein family, which play a role in immunoregulation and basic cellular processes involving protein folding and trafficking. This protein is a cis-trans prolyl isomerase that binds to the immunosuppressants FK506 and rapamycin. It has high structural and functional similarity to FK506-binding protein 1A (FKBP1A), but unlike FKBP1A, this protein does not have immunosuppressant activity when complexed with FK506. It interacts with interferon regulatory factor-4 and plays an important role in immunoregulatory gene expression in B and T lymphocytes. This protein is known to associate with phytanoyl-CoA alpha-hydroxylase. It can also associate with two heat shock proteins (hsp90 and hsp70) and thus may play a role in the intracellular trafficking of hetero-oligomeric forms of the steroid hormone receptors. This protein correlates strongly with adeno-associated virus type 2 vectors (AAV) resulting in a significant increase in AAV-mediated transgene expression in human cell lines. Thus this protein is thought to have important implications for the optimal use of AAV vectors in human gene therapy.

#### FKBP4 Antibody (Center) - References

Tatro, E.T., J Neuroimmune Pharmacol 4 (2), 218-226 (2009)  
Ruan, B., Proc. Natl. Acad. Sci. U.S.A. 105 (1), 33-38 (2008)  
Cox, M.B., Mol. Endocrinol. 21 (12), 2956-2967 (2007)