
Product Name: KO-Validated FKBP Prolyl Isomerase 4 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVAAb00120**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:2,000-1:10,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 51.8kDa

Antigen Information

Gene Name	FKBP4 FKBP4; FKBP Prolyl Isomerase 4; FKBP59; FKBP52; Peptidyl-Prolyl Cis-Trans Isomerase FKBP4; FK506 Binding Protein 4, 59kDa; EC 5.2.1.8; Rotamase; FKBP51; HBI; T-Cell FK506-Binding Protein, 59kD; Peptidylprolyl Cis-Trans Isomerase; FK506-Binding Protein 4 (59kD); 51 KDa
Alternative Names	FK506-Binding Protein; 52 KDa FK506-Binding Protein; HSP Binding Immunophilin; HSP-Binding Immunophilin; FK506 Binding; Protein 4; FK506-Binding Protein 4; 59 KDa Immunophilin; Immunophilin FKBP52; PPIase FKBP4; 52 KDa; FKBP; FKBP-52; PPIase; FKBP-4; Hsp56; P52; P59
Gene ID	2288.0
SwissProt ID	Q02790

Immunogen

A synthesized peptide derived from human FKBP52

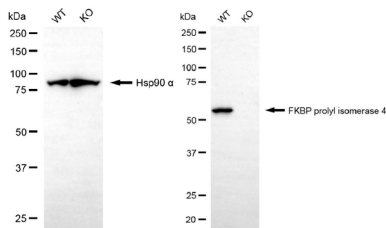
Background

The protein encoded by this gene is a member of the immunophilin protein family, which play a role in immunoregulation and basic cellular processes involving protein folding and trafficking. This encoded 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 encoded 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 encoded protein is thought to have important implications for the optimal use of AAV vectors in human gene therapy. The human genome contains several non-transcribed pseudogenes similar to this gene. [provided by RefSeq, Sep 2008]

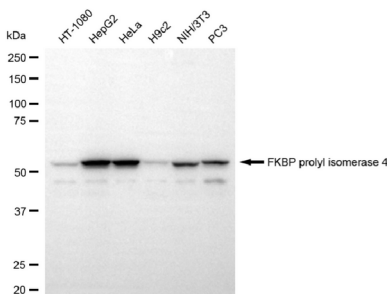
Research Area

Signal Transduction, Epigenetics and Nuclear Signaling

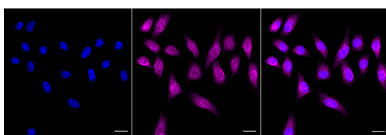
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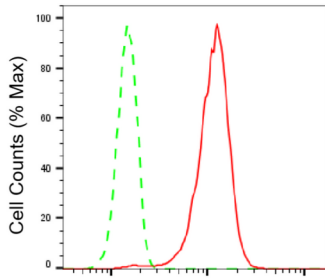
Western blotting analysis using FKBP prolyl isomerase 4 antibody (KVA00120). FKBP prolyl isomerase 4 expression in wild-type (WT) and FKBP prolyl isomerase 4 (FKBP4) knockout (KO) 293T cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with FKBP prolyl isomerase 4 antibody (KVA00120, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using FKBP prolyl isomerase 4 antibody (KVA00120). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with FKBP prolyl isomerase 4 antibody (KVA00120, 1:10,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with FKBP prolyl isomerase 4 antibody (KVA00120, 1:1,000). Nuclei were stained blue with DAPI; FKBP prolyl isomerase 4 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar, 20 µm.



Flow cytometric analysis of FKBP prolyl isomerase 4 expression in HepG2 cells using FKBP prolyl isomerase 4 antibody (KVA00120, 1:2,000). Green, isotype control; red, FKBP prolyl isomerase 4.

FKBP prolyl isomerase 4-Alexa Fluor® 647