

[KO Validated] Anti-FKBP4 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

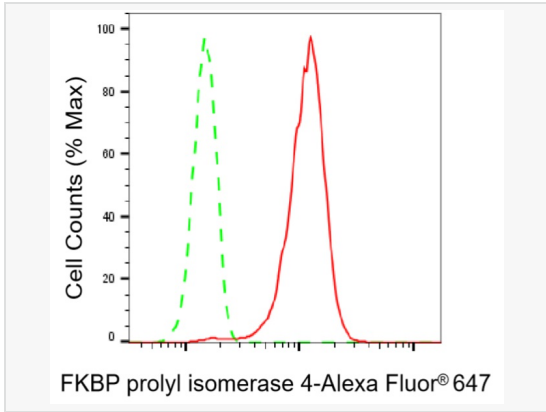
Catalog # R020190

Product Information

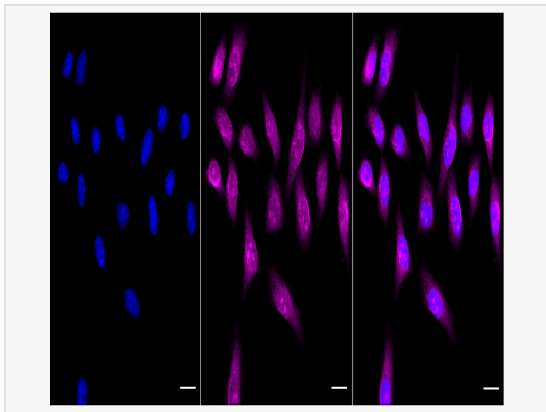
Application	WB, FC, IF (Cell)/ICC
Reactivity	Human, Mouse, Rat
Dilution	WB 1:2,000~1:10,000; FC 1:200~1:2,000; IF 1:100~1:1,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	19R36R24
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human FKBP52
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 12 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	[KO Validated] Anti-FKBP4 Rabbit mAb [19R36R24] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

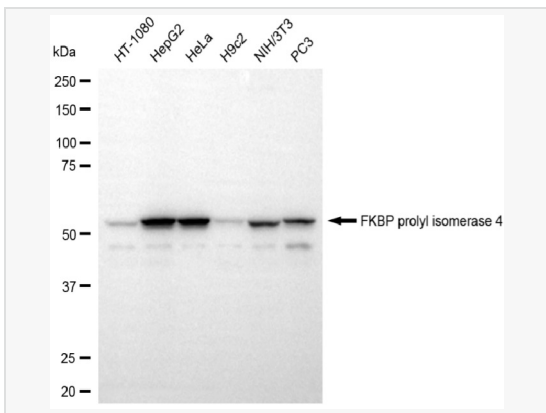
Synonyms	FKBP4; FKBP Prolyl Isomerase 4; FKBP59; FKBP52; Peptidyl-Prolyl Cis-Trans Isomerase FKBP4; FK506 Binding Protein 4, 59kDa; EC 5.2.1.8; Rotamase; FKBP51; HBI; T-Cell FK506-Binding Protein, 59kD; Peptidylprolyl Cis-Trans Isomerase; FK506-Binding Protein 4 (59kD); 51 KDa FK506-Binding Protein; 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.
Calculated MW	Calculated MW: 52 kDa; Observed MW: 52 kDa
Uniprot ID	Q02790
Gene ID	2288
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 phytyl-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



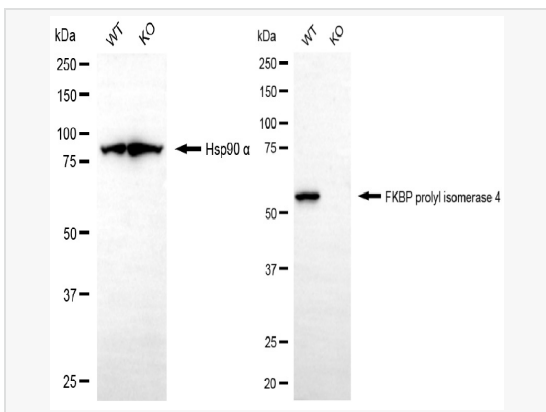
Flow cytometric analysis of FKBP prolyl isomerase 4 expression in HepG2 cells using FKBP prolyl isomerase 4 antibody (R020190, 1:2,000). Green, isotype control; red, FKBP prolyl isomerase 4.



Immunocytochemical staining of HepG2 cells with FKBP prolyl isomerase 4 antibody (R020190, 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 μ m.



Western blotting analysis using FKBP prolyl isomerase 4 antibody (R020190). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with FKBP prolyl isomerase 4 antibody (R020190, 1:10,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Western blotting analysis using FKBP prolyl isomerase 4 antibody (R020190). FKBP prolyl isomerase 4 expression in wild-type (WT) and FKBP prolyl isomerase 4 (FKBP4) knockout (KO) 293T cells with 20 μ g of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with FKBP prolyl isomerase 4 antibody (R020190, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.