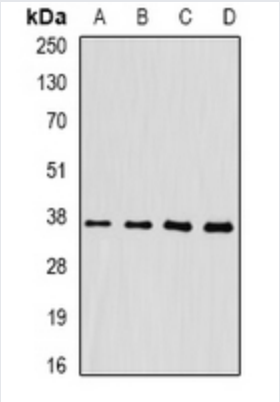
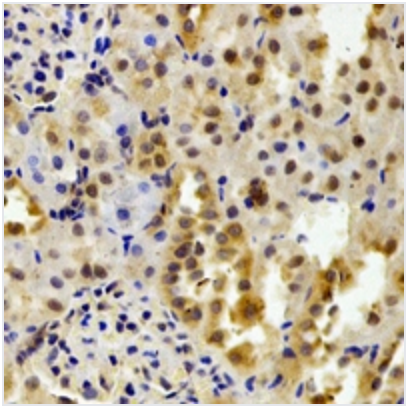
FKBP6 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

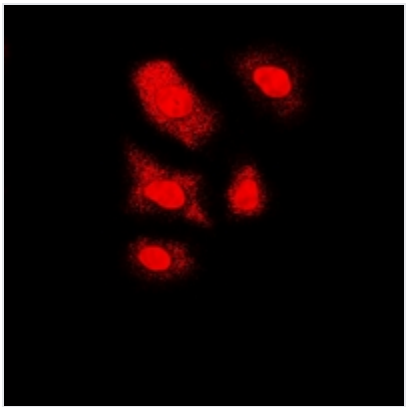
Product Name	FKBP6, Polyclonal Antibody
Full Product Name	Anti-FKBP6 Antibody
Product Gene Name	anti-FKBP6 antibody
Product Synonym Names	FKBP36; Inactive peptidyl-prolyl cis-trans isomerase FKBP6; Inactive PPIase FKBP6; 36 kDa FK506-binding protein; 36 kDa FKBP; FKBP-36; FK506-binding protein 6; FKBP-6; Immunophilin FKBP36
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Specificity	Recognizes endogenous levels of FKBP6 protein.
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	33,553 Da
OMIM	604839
3D Structure	ModBase 3D Structure for O75344
Immunogen	Recombinant full length protein of human FKBP6
Applications Tested/Suitable for anti-FKBP6 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)
Application Notes for anti-FKBP6 antibody	WB: 1/500 - 1/2000; IHC: 1/50 - 1/200; IF/ICC: 1/50 - 1/100
Related Product Information for anti-FKBP6 antibody	MBS8245352 is an antibody targeting FKBP6. Reactive in Human, Mouse, Rat. Host: Rabbit. Rabbit polyclonal antibody to FKBP6
Other Notes	Small volumes of anti-FKBP6 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-FKBP6 antibody
Western blot analysis of FKBP6 expression in HepG2 (A), mouse heart (B), mouse liver (C), rat testis (D) whole cell lysates.



Immunohistochemistry (IHC) of anti-FKBP6 antibody
Immunohistochemical analysis of FKBP6 staining in mouse kidney formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescence (IF) of anti-FKBP6 antibody
Immunofluorescent analysis of FKBP6 staining in U2OS cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FKBP6. It may not necessarily be applicable to this product.

NCBI GI #	206725544
NCBI GeneID	8468
NCBI Accession #	NP_001128683.1
UniProt Primary Accession #	O75344
UniProt Secondary Accession #	Q7Z4T4; Q9UDS0; B4DXT7; G3V0I2
UniProt Related Accession #	O75344
GenBank Nucleotide #	NM_001135211.2
NCBI Official Full Name	inactive peptidyl-prolyl cis-trans isomerase FKBP6 isoform b
NCBI Official Synonym Full Names	FK506 binding protein 6
NCBI Official Symbol	FKBP6

NCBI Official Synonym Symbols	FKBP36
UniProt Protein Name	Inactive peptidyl-prolyl cis-trans isomerase FKBP6
UniProt Synonym Protein Names	36 kDa FK506-binding protein; 36 kDa FKBP; FKBP-36; FK506-binding protein 6; FKBP-6; Immunophilin FKBP36
Protein Family	FK506-binding protein
UniProt Gene Name	FKBP6
UniProt Synonym Gene Names	FKBP36; Inactive PPIase FKBP6; 36 kDa FKBP; FKBP-36; FKBP-6
UniProt Entry Name	FKBP6_HUMAN
NCBI Protein Information	inactive peptidyl-prolyl cis-trans isomerase FKBP6
NCBI Summary for FKBP6	The protein encoded by this gene is a cis-trans peptidyl-prolyl isomerase that may function in immunoregulation and basic cellular processes involving protein folding and trafficking. This gene is located in a chromosomal region that is deleted in Williams-Beuren syndrome. Defects in this gene may cause male infertility. There are multiple pseudogenes for this gene located nearby on chromosome 7. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]
UniProt Comments for FKBP6	FKBP6: PPIases accelerate the folding of proteins. FKBP6 is located in the Williams-Beuren syndrome (WBS) critical region. WBS results from a hemizygous deletion of several genes on chromosome 7q11.23, thought to arise as a consequence of unequal crossing over between highly homologous low-copy repeat sequences flanking the deleted region. Haploinsufficiency of FKBP6 may be the cause of certain cardiovascular and musculo-skeletal abnormalities observed in the disease. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 5.2.1.8; Isomerase Chromosomal Location of Human Ortholog: 7q11.23 Cellular Component: cytoplasm; cytosol; endoplasmic reticulum membrane; synaptonemal complex Molecular Function: FK506 binding; Hsp90 protein binding; peptidyl-prolyl cis-trans isomerase activity; protein binding Biological Process: cell differentiation; DNA methylation during gametogenesis; meiosis; protein folding; protein peptidyl-prolyl isomerization; RNA-mediated gene silencing; spermatogenesis
Research Articles on FKBP6	**1.** Genome wide DNA methylation assessment approach identified novel biomarkers that differentiate between cervical cancer and normal samples. In the Validation cohort FKBP6 promoter methylation had 73% sensitivity and 80% specificity (AUC = 0.80).
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