

## Product datasheet for CF500673

### FKBP51 (FKBP5) Mouse Monoclonal Antibody [Clone ID: OTI3E9]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3E9
Applications:	IF, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:50, IF 1:100
Reactivity:	Human, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full-length protein expressed in 293T cell transfected with human FKBP5 expression vector
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	51.2 kDa
Gene Name:	FKBP prolyl isomerase 5
Database Link:	<a href="#">NP_004108</a> <a href="#">Entrez Gene 361810 Rat</a> <a href="#">Entrez Gene 2289 Human</a> <a href="#">Q13451</a>

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**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 is thought to mediate calcineurin inhibition. It also interacts functionally with mature hetero-oligomeric progesterone receptor complexes along with the 90 kDa heat shock protein and P23 protein. This gene has been found to have multiple polyadenylation sites. Alternative splicing results in multiple transcript variants.

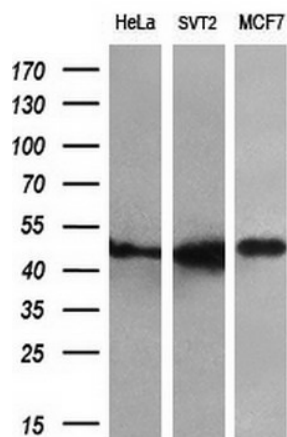
**Synonyms:**

AIG6; FKBP51; FKBP54; P54; PPlase; Ptg-10

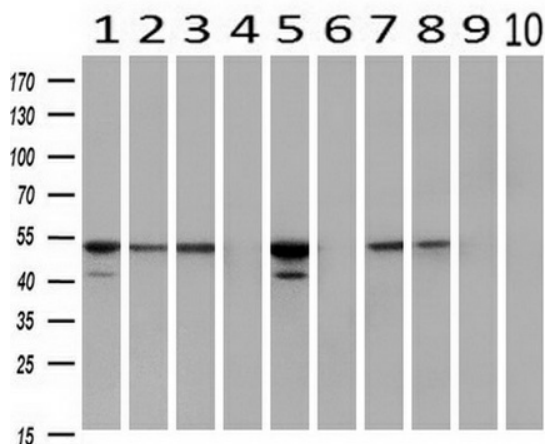
**Protein Families:**

Druggable Genome

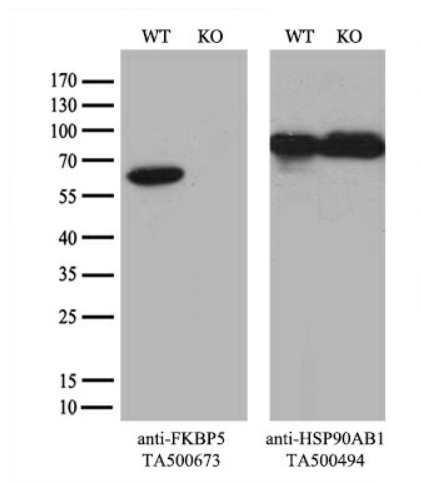
**Product images:**



Western blot analysis of extracts (10ug) from 3 different cell lines by using anti-FKBP5 monoclonal antibody (1:200).



Western blot analysis of extracts (10ug) from 10 Human tissue by using anti-FKBP5 monoclonal antibody at 1:200 (1: Testis; 2: Omentum; 3: Uterus; 4: Breast; 5: Brain; 6: Liver; 7: Ovary; 8: Thyroid gland; 9: colon; 10: spleen).



Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and FKBP5-Knockout HeLa cells (KO, Cat# [LC832231]) were separated by SDS-PAGE and immunoblotted with anti-FKBP5 monoclonal antibody [TA500673] (1:500). Then the blotted membrane was stripped and reprobed with anti-HSP90 antibody as a loading control.

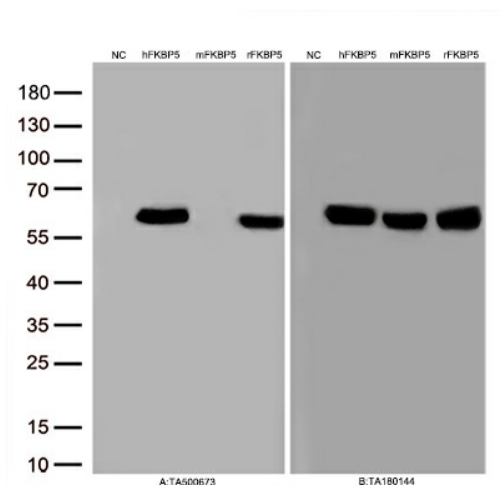
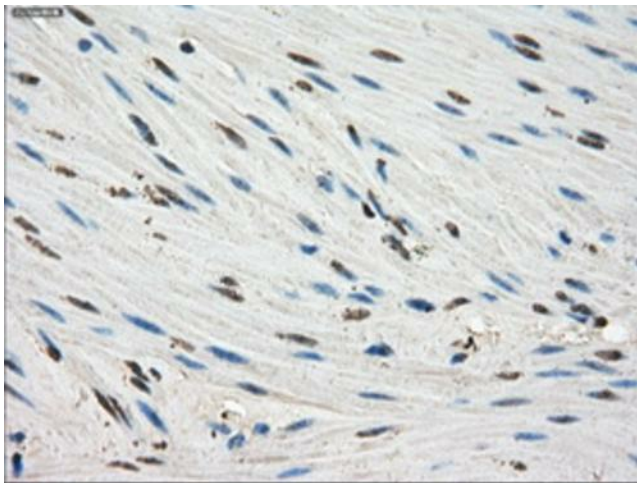
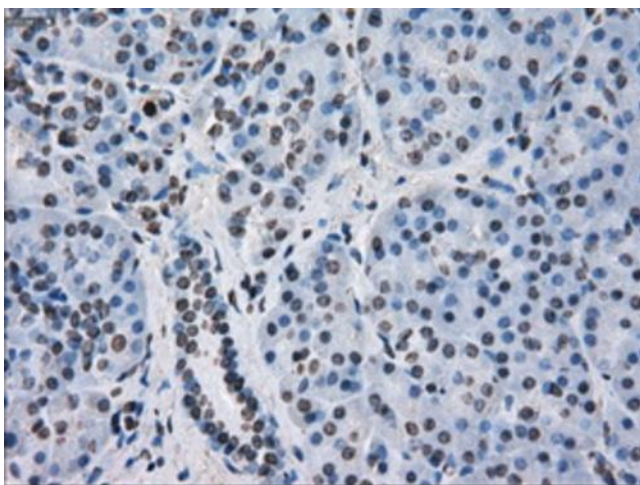


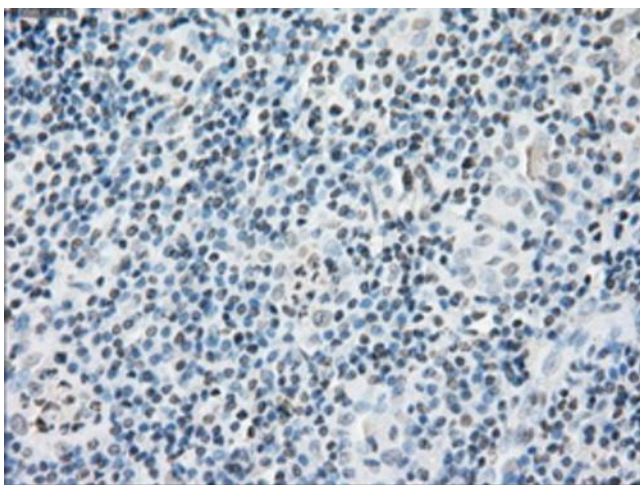
Figure A, Western blot analysis of overexpressed lysates (15ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], NC), human FKBP5 plasmid ([RC210608], hFKBP5), mouse FKBP5 plasmid ([MR224601], mFKBP5), rat FKBP5 plasmid ([RR201166], rFKBP5) using anti-FKBP5 antibody [TA500673] (1:500). Figure B, Western blot analysis of the same samples as figure A with anti-DDK antibody ([TA180144], 1:1000)



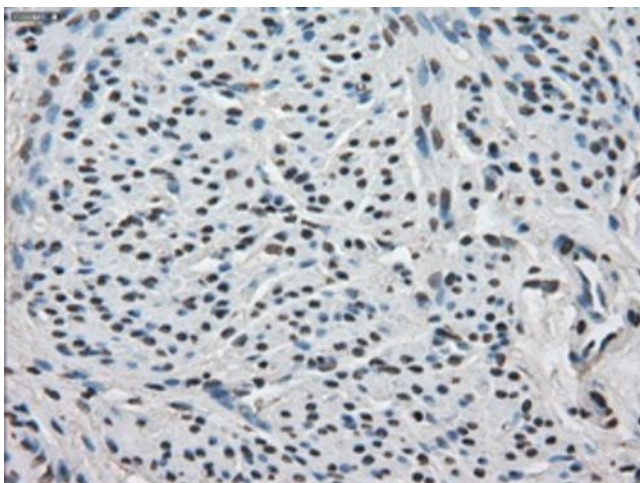
Immunohistochemical staining of paraffin-embedded colon tissue within the normal limits using anti-FKBP5 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



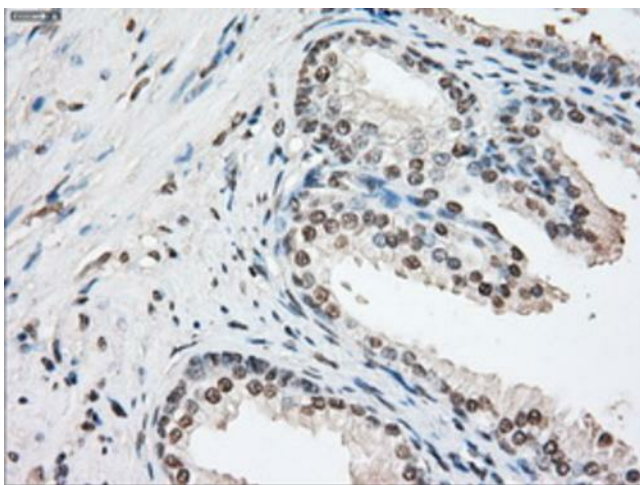
Immunohistochemical staining of paraffin-embedded pancreas tissue within the normal limits using anti-FKBP5mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



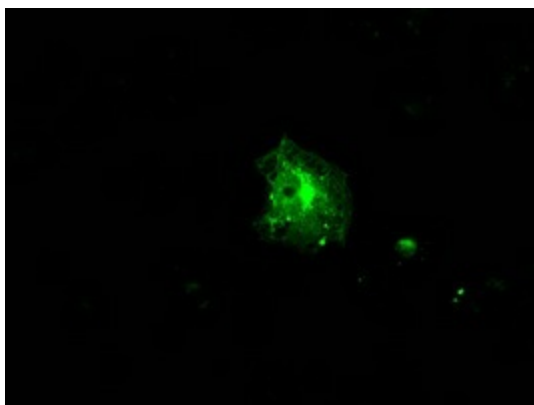
Immunohistochemical staining of paraffin-embedded Carcinoma of thyroid tissue using anti-FKBP5mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded endometrium tissue within the normal limits using anti-FKBP5mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded prostate tissue within the normal limits using anti-FKBP5 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Anti-FKBP5 mouse monoclonal antibody ([TA500673]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY FKBP5 ([RC210608]).