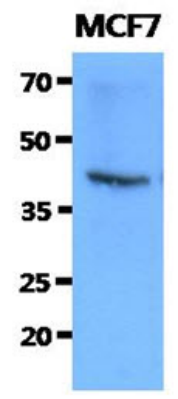
FKBP6 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	FKBP6, Monoclonal Antibody
Full Product Name	FKBP6 antibody
Product Gene Name	anti-FKBP6 antibody
Product Synonym Names	FK506 binding protein 6 36kDa; FKBP36; PPIase FKBP6; FK506 binding protein 6; 36kDa 36 kDa FK506 binding protein; EC 5.2.1.8; FK506 binding protein 6; FKBP 36; Immunophilin FKBP36; Peptidyl prolyl cis trans isomerase; PPIase; Rotamase.
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	AT9B7
Host	Mouse
Species Reactivity	Human
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Purity/Purification	By protein-A affinity chromatography
Concentration	1mg/ml (lot specific)
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.
Molecular Weight	33,553 Da
OMIM	AF038847 mRNA
3D Structure	ModBase 3D Structure for O75344
Antigen Species	Human
Immunogen	Recombinant human FKBP6 (1-327aa) purified from E. coli
Clone Note	Anti-human FKBP6 mAb, clone AT9B7, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human FKBP6 protein.
Product Categories/Family for anti-FKBP6 antibody	Immunology
Applications Tested/Suitable for anti-FKBP6 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-FKBP6 antibody	Recommended starting dilution is 1:1000.
Related Product Information for anti-FKBP6 antibody	FKBP6 (FK506 binding protein 6) is a 327 amino acid protein. FKBP6 is a member of the immunophilin protein family, which play a role in immunoregulation and basic cellular processes involving protein folding and trafficking. FKBP6 is essential for homologous chromosome pairing in meiosis during spermatogenesis. FKBP6 is ubiquitously expressed in all tissues, with higher expressed in testis, heart, skeletal muscle, liver, and kidney. Deletion of FKBP6 may contribute to hypercalcemia and growth delay in Williams-Beuren syndrome.
Product References and Citations for anti-FKBP6 antibody	Meng. X., et al. (1998) Genomics 52: 130-137; Crackower. M.A., et al. (2003) Science 300: 1291-1295; Metcalfe. K., et al. (2005) Clin Dysmorphol 14: 61-65;

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.
Searchable Terms for FKBP6 purchase	MBS200259 is an antibody targeting FKBP6. Also known as FKBP6 antibody. Reactive in Human. Host: Mouse.



Western Blot (WB) of anti-FKBP6 antibody
The cell lysates of MCF7 (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human FKBP6 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

ADDITIONAL DETAILS

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

NCBI GI #	146229346
NCBI GeneID	8468
NCBI Accession #	NP_003593
UniProt Primary Accession #	O75344
UniProt Secondary Accession #	Q7Z4T4; Q9UDS0; B4DXT7; G3V0I2
UniProt Related Accession #	O75344
GenBank Nucleotide #	NM_003602.4
NCBI Official Full Name	inactive peptidyl-prolyl cis-trans isomerase FKBP6 isoform a
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
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	Co-chaperone required during spermatogenesis to repress transposable elements and prevent their mobilization, which is essential for the germline integrity. Acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and govern the methylation and subsequent repression of transposons. Acts as a co-chaperone via its interaction with HSP90 and is required for the piRNA amplification process, the secondary piRNA biogenesis. May be required together with HSP90 in removal of 16 nucleotide ping-pong by-products from Piwi complexes, possibly facilitating turnover of Piwi complexes ().
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).
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/monoclonal-human-antibody/fkbp6/200259