FKBP14 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FKBP14, Polyclonal Antibody
Full Product Name	FKBP14, CT (FKBP14, FKBP22, Peptidyl-prolyl cis-trans isomerase FKBP14, 22kD FK506-binding protein, FK506-binding protein 14, Rotamase) (MaxLight 750)
Product Gene Name	anti-FKBP14 antibody
Product Synonym Names	FKBP14; FKBP22; Peptidyl-prolyl cis-trans isomerase FKBP14; 22kD FK506-binding protein; FK506-binding protein 14; Rotamase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	24,172 Da
OMIM	614505
3D Structure	ModBase 3D Structure for Q9NWM8
Immunogen	FKBP14 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 143-172 amino acids from the C-terminal region of human FKBP14.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-FKBP14 antibody	Antibodies; Binding Proteins
Applications Tested/Suitable for anti-FKBP14 antibody	Western Blot (WB), FLISA
Application Notes for anti-FKBP14 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-FKBP14 antibody	MBS6299350 is an antibody targeting FKBP14. Also known as FKBP14, CT (FKBP14, FKBP22, Peptidyl-prolyl cis-trans isomerase FKBP14, 22kD FK506-binding protein, FK506-binding protein 14, Rotamase) (MaxLight 750). Reactive in Human. Host: Rabbit. PPIases accelerate the folding of proteins during protein synthesis.
Product References and Citations for anti-FKBP14 antibody	Zhang, Z., et al. Protein Sci. 13(10):2819-2824(2004). Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003). Patterson, C.E., et al. Genomics 79(6):881-889(2002).
Other Notes	Small volumes of anti-FKBP14 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FKBP14. It may not necessarily be applicable to this product.

NCBI GI #	8923659
NCBI GeneID	55033
NCBI Accession #	NP_060416.1
UniProt Primary Accession #	Q9NWM8
UniProt Related Accession #	Q9NWM8
GenBank Nucleotide #	NM_017946.3
NCBI Official Full Name	peptidyl-prolyl cis-trans isomerase FKBP14
NCBI Official Synonym Full Names	FK506 binding protein 14, 22 kDa
NCBI Official Symbol	FKBP14
NCBI Official Synonym Symbols	EDSKMH; FKBP22; IPBP12
UniProt Protein Name	Peptidyl-prolyl cis-trans isomerase FKBP14
UniProt Synonym Protein Names	22 kDa FK506-binding protein; 22 kDa FKBP; FKBP-22; FK506-binding protein 14; FKBP-14; Rotamase
Protein Family	Peptidyl-prolyl cis-trans isomerase
UniProt Gene Name	FKBP14
UniProt Synonym Gene Names	FKBP22; PPIase FKBP14; 22 kDa FKBP; FKBP-22; FKBP-14
UniProt Entry Name	FKB14_HUMAN
NCBI Protein Information	peptidyl-prolyl cis-trans isomerase FKBP14; 22 kDa FK506-binding protein; 22 kDa FKBP; FK506-binding protein 14; FKBP-22; PPIase FKBP14; rotamase
NCBI Summary for FKBP14	The protein encoded by this gene is a member of the FK506-binding protein family of peptidyl-prolyl cis-trans isomerases. The encoded protein is found in the lumen of the endoplasmic reticulum, where it is thought to accelerate protein folding. Defects in this gene are a cause of a type of Ehlers-Danlos syndrome (EDS). Both a protein-coding variant and noncoding variants are transcribed from this gene. [provided by RefSeq, Mar 2012]
UniProt Comments for FKBP14	FKBP14: PPIases accelerate the folding of proteins during protein synthesis. Defects in FKBP14 are the cause of Ehlers-Danlos syndrome with progressive kyphoscoliosis, myopathy, and hearing loss (EDSKMH). A syndrome with features of Ehlers-Danlos syndrome types VIA and VIB on the one hand, and the collagen VI- related congenital myopathies Ullrich congenital muscular dystrophy and Bethlem myopathy on the other hand. Clinically, this disorder is characterized by the following features: severe generalized hypotonia at birth with marked muscle weakness that improve in infancy; early-onset progressive kyphoscoliosis; joint hypermobility without contractures; hyperelastic skin with follicular hyperkeratosis, easy bruising, and occasional abnormal scarring; myopathy as confirmed by muscle MRI, histology, and electron microscopy; hearing impairment, which is predominantly sensorineural; and a normal ratio of lysyl pyridinoline to hydroxylysyl pyridinoline (LP/HP) in urine. Protein type: Secreted, signal peptide; Secreted; Isomerase; EC 5.2.1.8 Chromosomal Location of Human Ortholog: 7p14.3 Cellular Component: endoplasmic reticulum membrane; endoplasmic reticulum lumen Molecular Function: FK506 binding; peptidyl-prolyl cis-trans isomerase activity; calcium ion binding Biological Process: protein peptidyl-prolyl isomerization; unfolded protein response, activation of signaling protein activity; cellular protein metabolic process; unfolded protein response Disease: Ehlers-danlos Syndrome With Progressive Kyphoscoliosis, Myopathy, And Hearing Loss
Research Articles on FKBP14	**1.** FKBP22 catalyzes the folding of type III collagen and only interacts with type III type VI and type X collagen.

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