

Rabbit FKRP Polyclonal Antibody | anti-FKRP antibody

FKRP Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324132	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

FKRP; Polyclonal Antibody; FKRP Antibody; Fkrp; FKRP_HUMAN; FLJ12576; Fukutin related protein; Fukutin-related protein; LGMD2I; MDC1C; MGC2991; anti-FKRP antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	FKRP antibody detects endogenous levels of total FKRP
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	495
Applicable Applications for anti-FKRP antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Golgi Apparatus. Secreted. Cell Membrane > Sarcolemma. Rough Endoplasmic Reticulum. According to some studies the N-terminal hydrophobic domain is cleaved after translocation to the Golgi apparatus and the protein is secreted. According to others the N-terminal hydrophobic domain is a transmembrane domain and the protein is a type II transmembrane type targeted to the Golgi apparatus by a non-cleavable signal anchor sequence. Localization at the cell membrane may require the presence of dystroglycan. At the Golgi apparatus localizes most likely at the cis-compartment. Detected in rough endoplasmic reticulum in myocytes. In general, mutants associated with severe clinical phenotypes are retained within the endoplasmic reticulum.
Tissue Specificity	Expressed predominantly in skeletal muscle, placenta, and heart and relatively weakly in brain, lung, liver kidney and pancreas.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA324132 staining Hela cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from Jurkat cells using FKRP antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-FKRP antibody	Function: Transferase involved in the biosynthesis of the phosphorylated O-mannosyl trisaccharide (N-acetylgalactosamine-beta-3-N-acetylglucosamine-beta-4-(phosphate-6-)mannose), a carbohydrate structure present in alpha-dystroglycan (DAG1), which is required for binding laminin G-like domain-containing extracellular proteins with high affinity. Subunit Structure: May interact with the dystrophin-glycoprotein complex (DGC) (By similarity). Homodimer; disulfide-linked. Exists also as large multimeric protein complexes. Post-translational Modifications: N-glycosylated. Similarity: Belongs to the LicD transferase family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	89941475
NCBI GeneID	79147
NCBI Accession #	NP_001034974.1
NCBI GenBank Nucleotide #	NM_001039885.2
UniProt Accession #	Q9H9S5; A8K5G7
Molecular Weight	Observed: 50 kD Predicted: 55 kDa
NCBI Official Full Name	fukutin-related protein
NCBI Official Synonym Full Names	fukutin related protein
NCBI Official Symbol	FKRP
NCBI Official Synonym Symbols	MDC1C; LGMD2I; LGMDR9; MDDGA5; MDDGB5; MDDGC5
NCBI Protein Information	fukutin-related protein
UniProt Protein Name	Fukutin-related protein
UniProt Gene Name	FKRP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.