

# Fkrp antibody - C-terminal region

Rabbit Polyclonal Antibody

Catalog # AI12521

## Product Information

Application	WB
Primary Accession	<a href="#">Q8CG64</a>
Other Accession	<a href="#">NM_173430</a> , <a href="#">NP_775606</a>
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	54852

## Additional Information

Gene ID	243853
Alias Symbol	A830029B19Rik, AI842067, AI847300, LGMD1I, MDC1C
Other Names	Fukutin-related protein, 2.-.-., Fkrp
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Fkrp antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Fkrp antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

Name	Fkrp {ECO:0000312   MGI:MGI:2447586}
Function	Catalyzes the transfer of CDP-ribitol to ribitol 5-phosphate previously attached by FKTN/fukutin of to the phosphorylated O-mannosyl trisaccharide (N-acetylgalactosamine-beta-3-N-acetylglucosamine-beta-4-(phosphate-6-)mannose), a carbohydrate structure present in alpha-dystroglycan (DAG1) (PubMed: <a href="#">26923585</a> ). This constitutes the second step in the formation of the ribose 5-phosphate tandem repeat which links the phosphorylated O-mannosyl trisaccharide to the ligand binding moiety composed of repeats of 3-xylosyl-alpha-1,3-glucuronic acid-beta- 1 (PubMed: <a href="#">26923585</a> ).
Cellular Location	Golgi apparatus membrane; Single-pass type II membrane protein. Secreted.

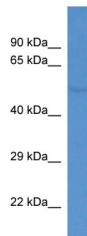
Cell membrane, sarcolemma. Rough endoplasmic reticulum {ECO:0000250|UniProtKB:Q9H9S5}. Cytoplasm. Note=The N-terminal hydrophobic domain is cleaved after translocation to the Golgi apparatus and the protein is secreted (PubMed:19900540). Localization at the cell membrane may require the presence of dystroglycan (PubMed:17452335). At the Golgi apparatus localizes to the middle-to-trans-cisternae (PubMed:12471058, PubMed:17554798). Detected in rough endoplasmic reticulum in myocytes (By similarity). {ECO:0000250|UniProtKB:Q9H9S5, ECO:0000269|PubMed:12471058, ECO:0000269|PubMed:17452335, ECO:0000269|PubMed:17554798, ECO:0000269|PubMed:19900540}

## Tissue Location

Expressed in the retina, specifically in the inner segments of the photoreceptors, the outer plexiform layers, inner nuclear layers, and ganglion cell layers (at protein level) (PubMed:29416295). Expressed at highest levels in brain, lung, heart, kidney and liver (PubMed:12471058).

## Images

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WB Suggested Anti-Fkrp Antibody Titration: 1.0 µg/ml  
Positive Control: Mouse liver

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.