

**FKRP Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP56118****Specification****FKRP Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	<a href="#">O9H9S5</a>
Reactivity	Rat, Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	54568

**FKRP Polyclonal Antibody - Additional Information****Gene ID** 79147**Other Names**

Fukutin-related protein, 2.4.2.-, Ribitol-5-phosphate transferase, FKRP

**Dilution**

<span class = "dilution\_WB">WB~~1:1000</span><br \><span class = "dilution\_IHC-P">IHC-P~~N/A</span><br \><span class = "dilution\_IHC-F">IHC-F~~N/A</span><br \><span class = "dilution\_IF">IF~~1:50~200</span><br \><span class = "dilution\_ICC">ICC~~N/A</span><br \><span class = "dilution\_E">E~~N/A</span>

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**FKRP Polyclonal Antibody - Protein Information****Name** FKRP ([HGNC:17997](#))**Function**

Catalyzes the transfer of a ribitol 5-phosphate from CDP-L- ribitol to the ribitol 5-phosphate previously attached by FKTN/fukutin 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="http://www.uniprot.org/citations/26923585" target="\_blank">26923585</a>, PubMed:<a href="http://www.uniprot.org/citations/27194101" target="\_blank">27194101</a>, PubMed:<a href="http://www.uniprot.org/citations/29477842" target="\_blank">29477842</a>, PubMed:<a href="http://www.uniprot.org/citations/31949166" target="\_blank">31949166</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="http://www.uniprot.org/citations/25279699" target="\_blank">25279699</a>, PubMed:<a href="http://www.uniprot.org/citations/26923585" target="\_blank">26923585</a>, PubMed:<a href="http://www.uniprot.org/citations/27194101" target="\_blank">27194101</a>, PubMed:<a href="http://www.uniprot.org/citations/29477842" target="\_blank">29477842</a>, PubMed:<a href="http://www.uniprot.org/citations/31949166" target="\_blank">31949166</a>).

### Cellular Location

Golgi apparatus membrane; Single-pass type II membrane protein. Secreted. Cell membrane, sarcolemma {ECO:0000250|UniProtKB:Q8CG64}. Rough endoplasmic reticulum. Cytoplasm {ECO:0000250|UniProtKB:Q8CG64}. Note=According to some studies 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 (By similarity). At the Golgi apparatus localizes to the middle-to-trans- cisternae, as assessed by MG160 colocalization. Detected in rough endoplasmic reticulum in myocytes (PubMed:17554798, PubMed:21886772) In general, mutants associated with severe clinical phenotypes are retained within the endoplasmic reticulum (PubMed:15213246) {ECO:0000250|UniProtKB:Q8CG64, ECO:0000269|PubMed:15213246, ECO:0000269|PubMed:17554798, ECO:0000269|PubMed:19900540, ECO:0000269|PubMed:21886772}

### Tissue Location

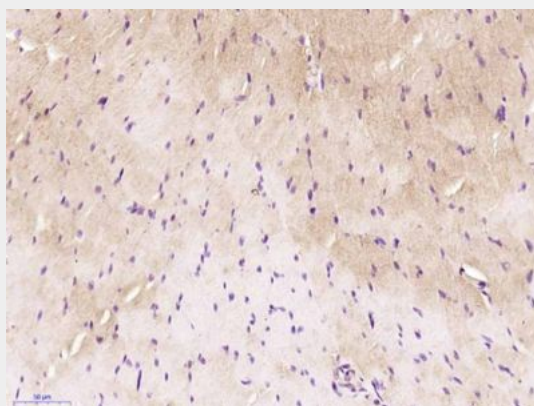
Expressed in the retina (at protein level) (PubMed:29416295). Expressed predominantly in skeletal muscle, placenta, and heart and relatively weakly in brain, lung, liver, kidney, and pancreas (PubMed:11592034).

## FKRP Polyclonal Antibody - Protocols

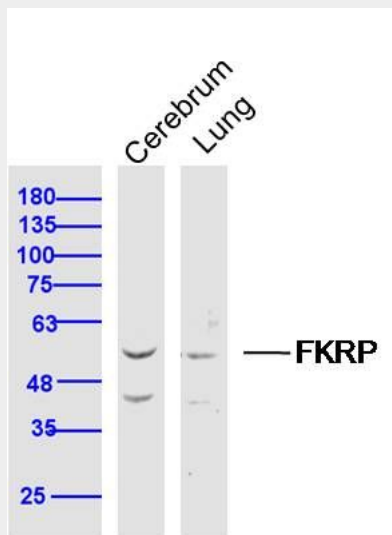
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## FKRP Polyclonal Antibody - Images



Paraformaldehyde-fixed, paraffin embedded (Rat skeletal muscle); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (FKRP) Polyclonal Antibody, Unconjugated (bs-16097R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



**Sample:**

Cerebrum (Mouse) Lysate at 40 ug

Lung (Mouse) Lysate at 40 ug

Primary: Anti-FKRP (bs-16097R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 55 kD

Observed band size: 55 kD