

# Fukutin Rabbit mAb

Catalog # AP78765

## Product Information

---

<b>Application</b>	WB, IHC-P
<b>Primary Accession</b>	<a href="#">O75072</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Immunogen</b>	A synthesized peptide derived from human Fukutin
<b>Purification</b>	Affinity Chromatography
<b>Calculated MW</b>	53724

## Additional Information

---

<b>Gene ID</b>	2218
<b>Other Names</b>	FKTN
<b>Dilution</b>	WB~~1/500-1/1000 IHC-P~~N/A
<b>Format</b>	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

---

<b>Name</b>	FKTN ( <a href="#">HGNC:3622</a> )
<b>Function</b>	Catalyzes the transfer of a ribitol-phosphate from CDP- ribitol to the distal N-acetylgalactosamine 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) (PubMed: <a href="#">26923585</a> , PubMed: <a href="#">27194101</a> , PubMed: <a href="#">29477842</a> ). This constitutes the first step in the formation of the ribitol 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="#">17034757</a> , PubMed: <a href="#">25279699</a> , PubMed: <a href="#">26923585</a> , PubMed: <a href="#">27194101</a> , PubMed: <a href="#">29477842</a> ). Required for normal location of POMGNT1 in Golgi membranes, and for normal POMGNT1 activity (PubMed: <a href="#">17034757</a> ). May interact with and reinforce a large complex encompassing the outside and inside of muscle membranes (PubMed: <a href="#">25279699</a> ). Could be involved in brain

development (Probable).

### Cellular Location

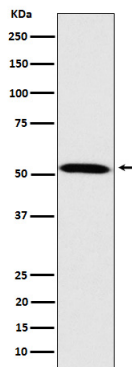
Golgi apparatus membrane; Single-pass type II membrane protein. Cytoplasm {ECO:0000250|UniProtKB:Q8R507}. Nucleus {ECO:0000250|UniProtKB:Q8R507}. Note=In retinal tissue, does not localize with the Golgi apparatus. {ECO:0000250|UniProtKB:Q8R507}

### Tissue Location

Expressed in the retina (at protein level) (PubMed:29416295). Widely expressed with highest expression in brain, heart, pancreas and skeletal muscle (PubMed:11115853). Expressed at similar levels in control fetal and adult brain (PubMed:11115853) Expressed in migrating neurons, including Cajal-Retzius cells and adult cortical neurons, as well as hippocampal pyramidal cells and cerebellar Purkinje cells (PubMed:11115853). No expression observed in the glia limitans, the subpial astrocytes (which contribute to basement membrane formation) or other glial cells (PubMed:11115853)

## Images

---



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