

# BIN1 Rabbit mAb

Catalog # AP75158

### Specification

## BIN1 Rabbit mAb - Product Information

Application Primary Accession Reactivity Host Clonality Calculated MW WB, IHC-P, IHC-F, IP, ICC <u>000499</u> Human Rabbit Monoclonal Antibody 64699

### BIN1 Rabbit mAb - Additional Information

Gene ID 274

Other Names BIN1

Dilution WB~~1/500-1/1000 IHC-P~~N/A IHC-F~~N/A IP~~N/A ICC~~N/A

Format 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.

**Storage** Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

### **BIN1** Rabbit mAb - Protein Information

Name BIN1

Synonyms AMPHL

Function

Is a key player in the control of plasma membrane curvature, membrane shaping and membrane remodeling. Required in muscle cells for the formation of T-tubules, tubular invaginations of the plasma membrane that function in depolarization-contraction coupling (PubMed:<a href="http://www.uniprot.org/citations/24755653" target="\_blank">24755653</a>). Is a negative regulator of endocytosis (By similarity). Is also involved in the regulation of intracellular vesicles sorting, modulation of BACE1 trafficking and the control of amyloid-beta production (PubMed:<a href="http://www.uniprot.org/citations/27179792" target="\_blank">27179792</a>). In neuronal circuits, endocytosis regulation may influence the internalization of PHF-tau aggregates (By similarity). May be involved in the regulation of MYC activity and the control cell proliferation



(PubMed:<a href="http://www.uniprot.org/citations/8782822" target="\_blank">8782822</a>). Has actin bundling activity and stabilizes actin filaments against depolymerization in vitro (PubMed:<a href="http://www.uniprot.org/citations/28893863" target=" blank">28893863</a>).

#### **Cellular Location**

[Isoform BIN1]: Nucleus. Cytoplasm Endosome {ECO:0000250|UniProtKB:008539}. Cell membrane, sarcolemma, T- tubule {ECO:0000250|UniProtKB:008839}

#### **Tissue Location**

Ubiquitous. Highest expression in the brain and muscle (PubMed:9182667). Expressed in oligodendrocytes (PubMed:27488240). Isoform IIA is expressed only in the brain, where it is detected in the gray matter, but not in the white matter (PubMed:27488240). Isoform BIN1 is widely expressed with highest expression in skeletal muscle.

#### BIN1 Rabbit mAb - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

BIN1 Rabbit mAb - Images

