

## **BIN1** Antibody

Rabbit mAb Catalog # AP93096

## **Specification**

### **BIN1 Antibody - Product Information**

Application WB, IHC, ICC
Primary Accession O00499
Reactivity Rat
Clonality Monoclonal

**Other Names** 

AMPH2; Amphiphysin 2; Amphiphysin II; Amphiphysin like protein; AMPHL; Bin1; Box Dependant MYC Interacting Protein 1; Bridging integrator 1; Myc box dependent interacting protein 1; SH3P9;

Isotype Rabbit IgG
Host Rabbit
Calculated MW 64699 Da

# **BIN1 Antibody - Additional Information**

Dilution WB~~1:1000

IHC~~1:100~500

ICC~~N/A

Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human

BIN1

Description May be involved in regulation of synaptic

vesicle endocytosis. May act as a tumor suppressor and inhibits malignant cell

transformation.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline,

pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid

freeze / thaw cycle.

### **BIN1 Antibody - 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:O08539}. Cell membrane, sarcolemma, T- tubule {ECO:0000250|UniProtKB:O08839}

#### **Tissue Location**

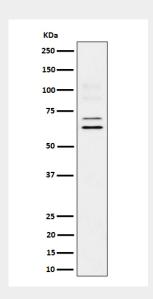
Ubiquitous. Highest expression in the brain and muscle (PubMed:9182667). Expressed in oligodendrocytes (PubMed:27488240). Isoform IIA is expressed only in the brain, where it is detected in the gray matter, but not in the white matter (PubMed:27488240). Isoform BIN1 is widely expressed with highest expression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

## **BIN1 Antibody - Protocols**

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

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

# **BIN1 Antibody - Images**



Western blot analysis of BIN1 expression in U87-MG cell lysate.