

### **Amphiphysin II Polyclonal Antibody**

**Catalog # AP73535** 

### **Specification**

#### **Amphiphysin II Polyclonal Antibody - Product Information**

Application WB, IHC-P Primary Accession O00499

Reactivity Human, Mouse, Rat

Host Rabbit Clonality Polyclonal

### **Amphiphysin II Polyclonal Antibody - Additional Information**

#### Gene ID 274

#### **Other Names**

BIN1; AMPHL; Myc box-dependent-interacting protein 1; Amphiphysin II; Amphiphysin-like protein; Box-dependent myc-interacting protein 1; Bridging integrator 1

#### Dilution

WB~~Western Blot: 1/500 - 1/2000. IHC-p: 1/100-1/300. ELISA: 1/20000. Not yet tested in other applications. IHC-P~ $\sim$ N/A

#### **Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

# **Storage Conditions**

-20°C

### **Amphiphysin II Polyclonal 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**

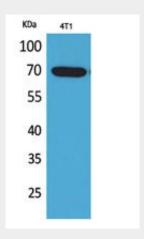
Ubiquitous. Highest expression in the brain and muscle (PubMed:9182667). Expressed in oligodendrocytes (PubMed:27488240). Isoform IIA is expressed only in the brain, where it is detected in the gray matter, but not in the white matter (PubMed:27488240). Isoform BIN1 is widely expressed with highest expression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

### **Amphiphysin II Polyclonal Antibody - Protocols**

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

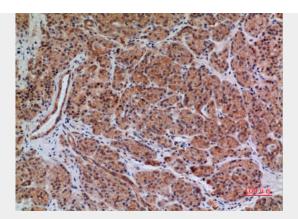
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

### **Amphiphysin II Polyclonal Antibody - Images**

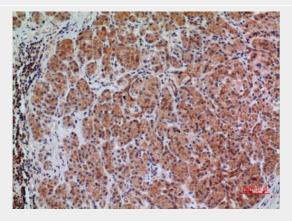


Western Blot analysis of 4T1 cells using Amphiphysin II Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

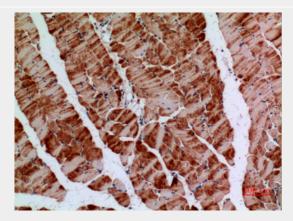




Immunohistochemical analysis of paraffin-embedded human-pancreas, antibody was diluted at 1:100

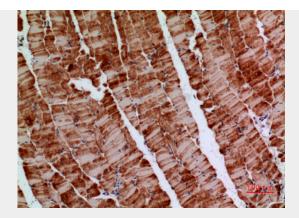


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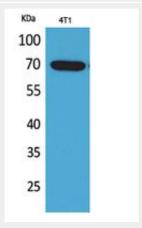


Immunohistochemical analysis of paraffin-embedded mouse-muscle, antibody was diluted at 1:100

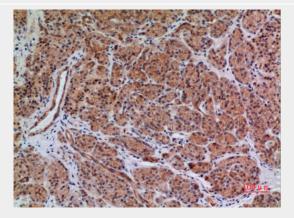




Immunohistochemical analysis of paraffin-embedded mouse-muscle, antibody was diluted at 1:100

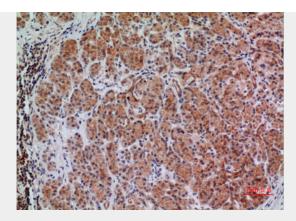


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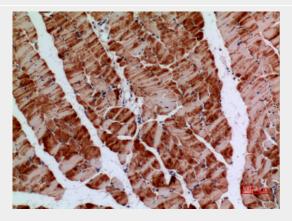


Immunohistochemical analysis of paraffin-embedded human-pancreas, antibody was diluted at 1:100

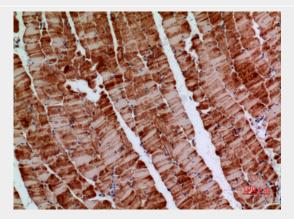




Immunohistochemical analysis of paraffin-embedded human-pancreas, antibody was diluted at 1:100



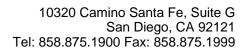
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