

# Amphiphysin II Polyclonal Antibody

Catalog # AP73499

## Product Information

Application	WB, IHC-P, IF, ICC, E
Primary Accession	<a href="#">O00499</a>
Reactivity	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	64699

## 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~~Western Blot: 1/500 - 1/2000. IHC-p: 1/100-1/300. ELISA: 1/20000. Not yet tested in other applications. IF~~1:50~200 ICC~~N/A E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

## 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="#">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="#">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="#">8782822</a> ). Has actin bundling activity and stabilizes actin filaments against depolymerization in vitro (PubMed: <a href="#">28893863</a> ).

## Cellular Location

[Isoform BIN1]: Nucleus. Cytoplasm Endosome  
{ECO:0000250|UniProtKB:O08539}. Cell membrane, sarcolemma, T- tubule  
{ECO:0000250|UniProtKB:O08839}

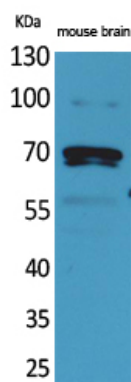
## Tissue Location

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.

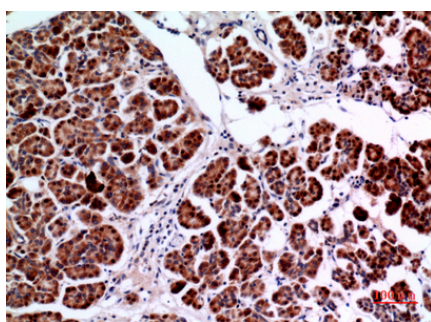
## Background

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:[24755653](#)). 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:[27179792](#)). 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:[8782822](#)). Has actin bundling activity and stabilizes actin filaments against depolymerization in vitro (PubMed:[28893863](#)).

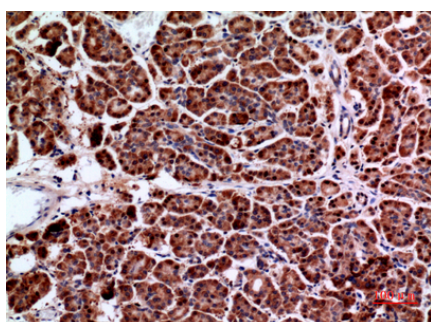
## Images



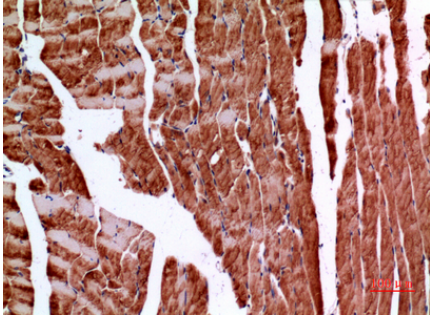
Western Blot analysis of mouse brain cells using Amphiphysin II Polyclonal Antibody.. Secondary antibody was diluted at 1:20000



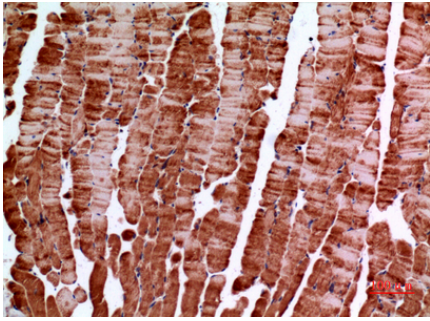
Immunohistochemical analysis of paraffin-embedded human-pancreas, antibody was diluted at 1:100



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



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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