

Anti-Amphiphysin 2 Antibody

Catalog # AP95700

Product Information

Application	WB, IHC, FC
Primary Accession	O00499
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Calculated MW	64699

Additional Information

Gene ID	274
Other Names	AMPHL; Myc box-dependent-interacting protein 1; Amphiphysin II; Amphiphysin-like protein; Box-dependent myc-interacting protein 1; Bridging integrator 1
Target/Specificity	Recombinant fusion protein of human Amphiphysin 2 expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~FC (1/100 - 1/200)
Format	Mouse IgG2b. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

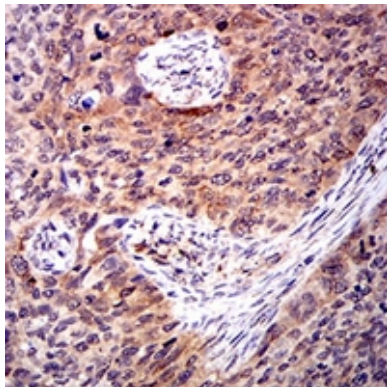
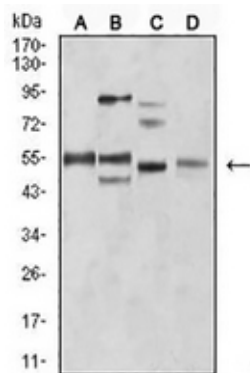
Name	BIN1
Synonyms	AMPHL
Function	Is a key player in the control of plasma membrane curvature, membrane shaping and membrane remodeling. Required in muscle cells for the formation of T-tubules, tubular invaginations of the plasma membrane that function in depolarization-contraction coupling (PubMed: 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).
Cellular Location	[Isoform BIN1]: Nucleus. Cytoplasm Endosome

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

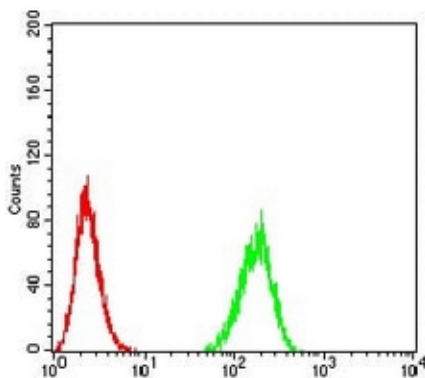
Tissue Location

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.

Images



Immunohistochemical analysis of Amphiphysin 2 staining in human cervical cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



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