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KD-Validated Anti-Bridging integrator 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1168

Specification

KD-Validated Anti-Bridging integrator 1 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	O00499
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 65 kDa , observed, 50, 60, 65 kDa KDa**
Gene Name	**BIN1**
Aliases	**BIN1; Bridging Integrator 1; Myc Box-Dependent-Interacting Protein 1; Amphiphysin II; SH3P9; AMPH2; AMPHL; Box-Dependent Myc-Interacting Protein 1; Amphiphysin-Like Protein; Amphiphysin; Box Dependant MYC Interacting Protein 1; CNM2**
Immunogen	**A synthesized peptide derived from human BIN1**

KD-Validated Anti-Bridging integrator 1 Rabbit Monoclonal Antibody - Additional Information

Gene ID **274**

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

KD-Validated Anti-Bridging integrator 1 Rabbit Monoclonal 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: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}

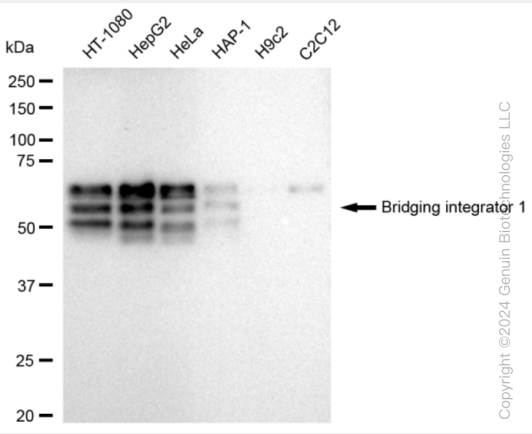
Tissue Location
Ubiquitous. Highest expression in the brain and muscle (PubMed:9182667). Expressed in oligodendrocytes (PubMed:27488240). Isoform IIA is expressed only in the brain, where it is detected in the gray matter, but not in the white matter (PubMed:27488240). Isoform BIN1 is widely expressed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

KD-Validated Anti-Bridging integrator 1 Rabbit Monoclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Bridging integrator 1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Bridging integrator 1 antibody (Cat#AGI1168). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Bridging integrator 1 antibody (Cat#AGI1168, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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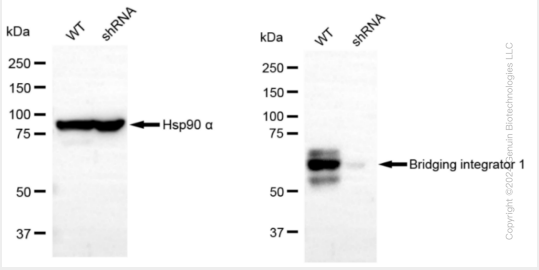
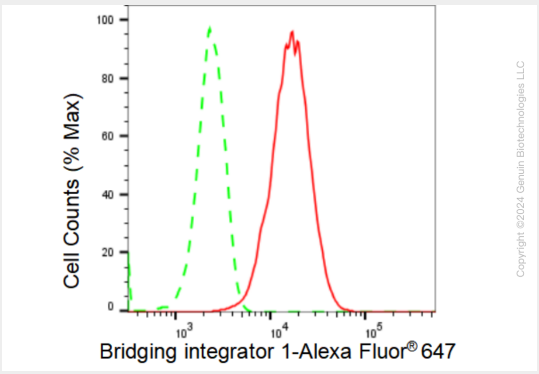
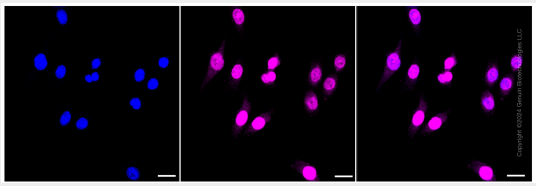


Western blotting analysis using anti-Bridging integrator 1 antibody (Cat#AGI1168). Bridging integrator 1 expression in wild type (WT) and Bridging integrator 1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-Bridging integrator 1 antibody (Cat#AGI1168, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Bridging integrator 1 expression in HepG2 cells using Bridging integrator 1 antibody (Cat#AGI1168, 1:2,000). Green, isotype control; red, Bridging integrator 1.



Immunocytochemical staining of HepG2 cells with Bridging integrator 1 antibody (Cat#AGI1168, 1:1,000). Nuclei were stained blue with DAPI; Bridging integrator 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.