Product Name: KD-Validated Bridging Integrator 1 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVAb01626

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 64.7kDa

Antigen Information

Gene Name	BIN1
Alternative Names	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
Gene ID	274.0
SwissProt ID	O00499
Immunogen	A synthesized peptide derived from human BIN1

Background

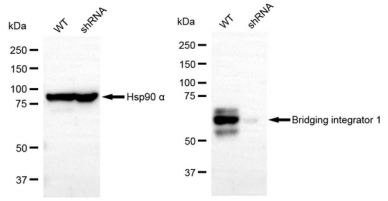
This gene encodes several isoforms of a nucleocytoplasmic adaptor protein, one of which was initially identified as a MYC-

interacting protein with features of a tumor suppressor. Isoforms that are expressed in the central nervous system may be involved in synaptic vesicle endocytosis and may interact with dynamin, synaptojanin, endophilin, and clathrin. Isoforms that are expressed in muscle and ubiquitously expressed isoforms localize to the cytoplasm and nucleus and activate a caspase-independent apoptotic process. Studies in mouse suggest that this gene plays an important role in cardiac muscle development. Alternate splicing of the gene results in several transcript variants encoding different isoforms. Aberrant splice variants expressed in tumor cell lines have also been described. [provided by RefSeq, Mar 2016]

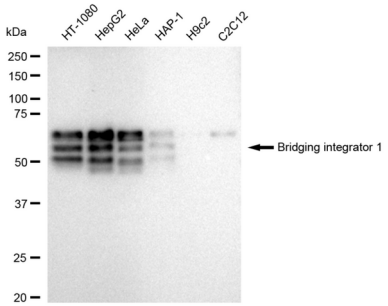
Research Area

Cell Biology,Microbiology,Epigenetics and Nuclear Signaling,Cancer,Neuroscience

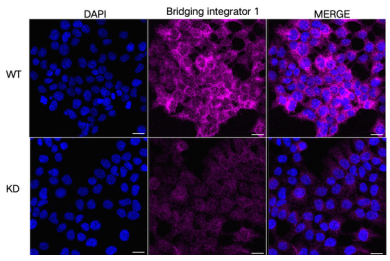
Image Data



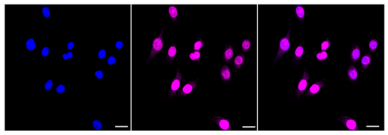
Western blotting analysis using bridging integrator 1 antibody (KVAb01626). Bridging integrator 1 expression in wild type (WT) and bridging integrator 1 (BIN1) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with bridging integrator 1 antibody (KVAb01626, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



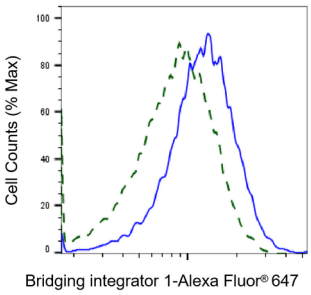
Western blotting analysis using Bridging integrator 1 antibody (KVAb01626). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Bridging integrator 1 antibody (KVAb01626, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



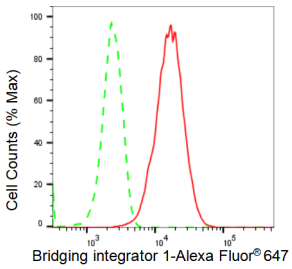
Immunocytochemical staining of HeLa cells using Bridging integrator 1 antibody (KVAb01626, 1:1,000), Top panel: wild-type (WT); Bottom panal: Bridging integrator 1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Bridging integrator 1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HepG2 cells with Bridging integrator 1 antibody (KVAb01626, 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.



Validation of Bridging integrator 1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Bridging integrator 1 antibody (KVAb01626, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Bridging integrator 1 expression in HepG2 cells using Bridging integrator 1 antibody (KVAb01626, 1:2,000). Green, isotype control; red, Bridging integrator 1.