

Product Name: KD-Validated DNM1L Mouse Monoclonal Antibody**Catalog #: KVA00565**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2b
Clonality	Mouse 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: 81.9kDa

Antigen Information

Gene Name	DNM1L
Alternative Names	DNM1L; Dynamin 1 Like; DRP1; DVLP; HDYNIV; DYMPLE; Dynamin Family Member Proline-Rich Carboxyl-Terminal Domain Less; Dynamin-Related Protein 1; Dnm1p/Vps1p-Like Protein; Dynamin-Like Protein IV; Dynamin-1-Like Protein; Dynamin-Like Protein 4; EC 3.6.5.5; VPS1; DLP1; Dynamin-Like Protein; Dymple; HdynIV; EMPF1; EMPF; OPA5
Gene ID	10059.0
SwissProt ID	O00429
Immunogen	Recombinant protein of human DNM1L

Background

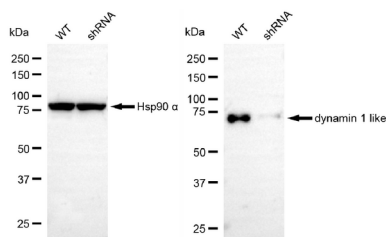
This gene encodes a member of the dynamin superfamily of GTPases. The encoded protein mediates mitochondrial and

peroxisomal division, and is involved in developmentally regulated apoptosis and programmed necrosis. Dysfunction of this gene is implicated in several neurological disorders, including Alzheimer's disease. Mutations in this gene are associated with the autosomal dominant disorder, encephalopathy, lethal, due to defective mitochondrial and peroxisomal fission (EMPF). Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jun 2013]

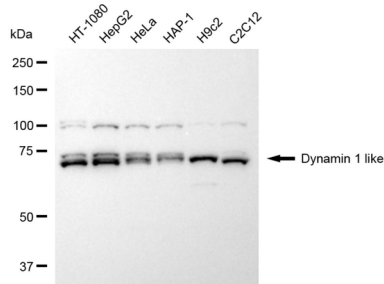
Research Area

Cancer, Neuroscience

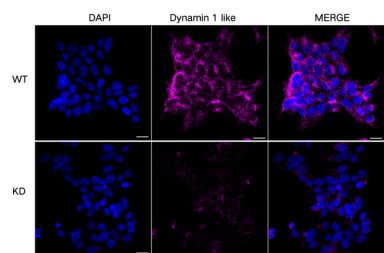
Image Data



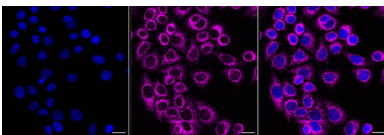
Western blotting analysis using dynamin 1 like antibody (KVA00565). Dynamin 1 like expression in wild type (WT) and dynamin 1 like (DNM1L) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with dynamin 1 like antibody (KVA00565, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



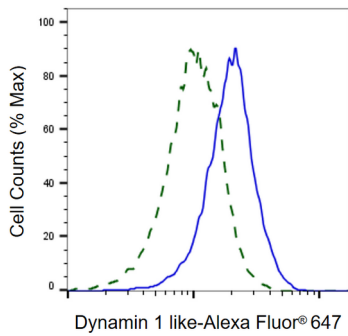
Western blotting analysis using dynamin 1 like antibody (KVA00565). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with dynamin 1 like antibody (KVA00565, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



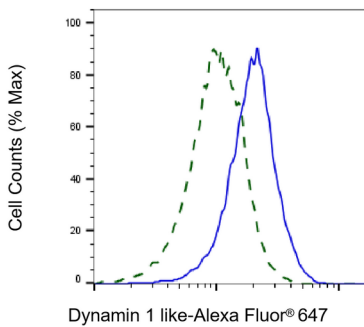
Immunocytochemical staining of HeLa cells using Dynamin 1 like antibody (KVA00565, 1:1,000). Top panel: wild-type (WT); Bottom panel: Dynamin 1 like shRNA knockdown (KD). Nuclei were stained blue with DAPI; Dynamin 1 like was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HepG2 cells with Dynamin 1 like protein antibody (KVA00565, 1:500). Nuclei were stained blue with DAPI; Dynamin 1 like 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 Dynamin 1 like knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Dynamin 1 like antibody (KVA00565, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Dynamin 1 like expression in HepG2 cells using Dynamin 1 like antibody (KVA00565, 1:1,000). Green, isotype control; red, Dynamin 1 like.