
Product Name: KD-Validated Dynamin 2 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01114

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
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; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 98.1kDa

Antigen Information

Gene Name	DNM2
Alternative Names	DNM2; Dynamin 2; DYN2; DI-CMTB; CMTDIB; CMTD11; DYNII; CMT2M; Dynamin II; EC 3.6.5.5; Dynamin-2; Cytoskeletal Protein; LCCS5
Gene ID	1785.0
SwissProt ID	P50570
Immunogen	A synthesized peptide derived from human Dynamin 2

Background

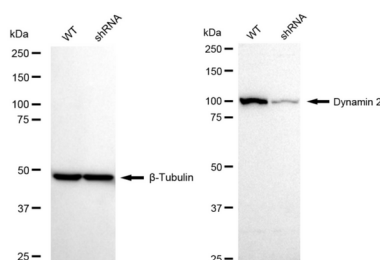
Dynamins represent one of the subfamilies of GTP-binding proteins. These proteins share considerable sequence similarity over the N-terminal portion of the molecule, which contains the GTPase domain. Dynamins are associated with microtubules. They have been implicated in cell processes such as endocytosis and cell motility, and in alterations of the membrane that

accompany certain activities such as bone resorption by osteoclasts. Dynamins bind many proteins that bind actin and other cytoskeletal proteins. Dynamins can also self-assemble, a process that stimulates GTPase activity. Five alternatively spliced transcripts encoding different proteins have been described. Additional alternatively spliced transcripts may exist, but their full-length nature has not been determined. [provided by RefSeq, Jun 2010]

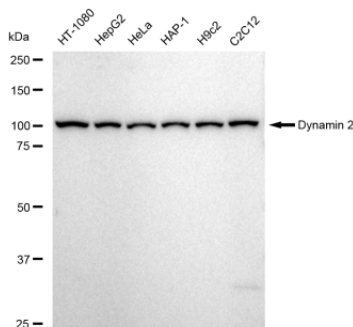
Research Area

Signal Transduction, Neuroscience

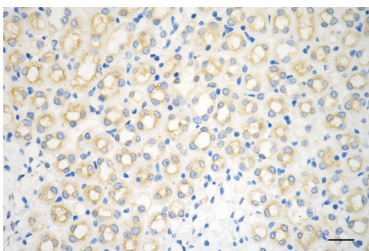
Image Data



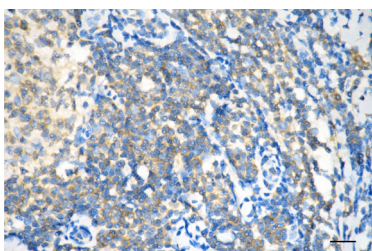
Western blotting analysis using Dynamin 2 antibody (KVA01114). Dynamin 2 expression in wild type (WT) and Dynamin 2 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Dynamin 2 antibody (KVA01114, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



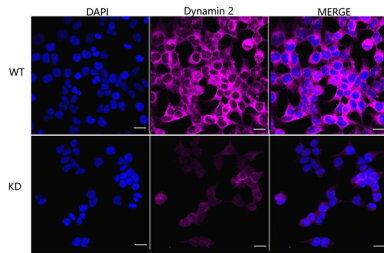
Western blotting analysis using Dynamin 2 antibody (KVA01114). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Dynamin 2 antibody (KVA01114, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



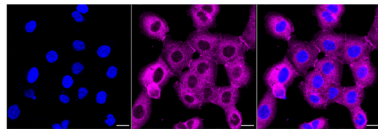
Immunohistochemistry was performed on paraffin-embedded mouse kidney using dynamin 2 antibody (KVA01114, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



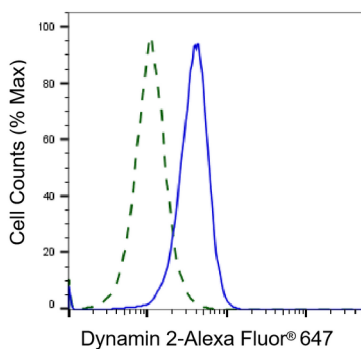
Immunohistochemistry was performed on paraffin-embedded human breast carcinoma using dynamin 2 antibody (KVA01114, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



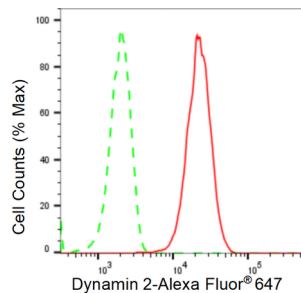
Immunocytochemical staining of HeLa cells using Dynamin 2 antibody (KVA01114, 1:1,000), Top panel: wild-type (WT); Bottom panel: Dynamin 2 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Dynamin 2 was stained magenta with Alexa Fluor® 647. Scale bar, 20 μm. Permeabilization: Triton.



Immunocytochemical staining of HepG2 cells with Dynamin 2 antibody (KVA01114, 1:1,000). Nuclei were stained blue with DAPI; Dynamin 2 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 2 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Dynamin 2 antibody (KVA01114, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Dynamin 2 expression in HT-1080 cells using Dynamin 2 antibody (KVA01114, 1:2,000). Green, isotype control; red, Dynamin 2.