
Product Name: KD-Validated Caveolin 3 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01635

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: 17.3kDa

Antigen Information

Gene Name	CAV3
Alternative Names	CAV3; Caveolin 3; M-Caveolin; VIP-21; LGMD1C; VIP21; LQT9; Caveolin-3; Cavolin 3; MPDT; RMD2
Gene ID	859.0
SwissProt ID	P56539
Immunogen	A synthesized peptide derived from Caveolin-3

Background

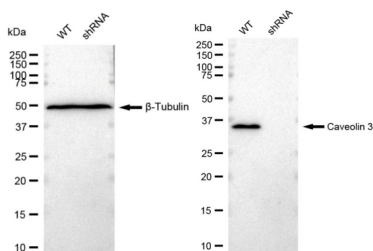
This gene encodes a caveolin family member, which functions as a component of the caveolae plasma membranes found in most cell types. Caveolin proteins are proposed to be scaffolding proteins for organizing and concentrating certain caveolin-interacting molecules. Mutations identified in this gene lead to interference with protein oligomerization or intra-cellular

routing, disrupting caveolae formation and resulting in Limb-Girdle muscular dystrophy type-1C (LGMD-1C), hyperCKemia or rippling muscle disease (RMD). Alternative splicing has been identified for this locus, with inclusion or exclusion of a differentially spliced intron. In addition, transcripts utilize multiple polyA sites and contain two potential translation initiation sites. [provided by RefSeq, Jul 2008]

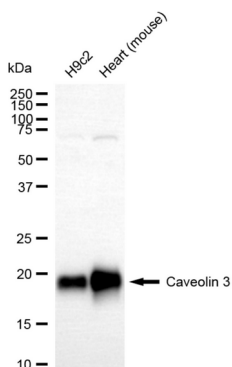
Research Area

Signal Transduction, Cardiovascular, Developmental Biology, Neuroscience

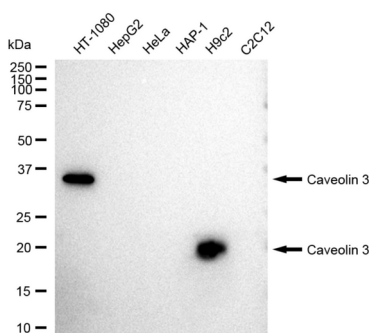
Image Data



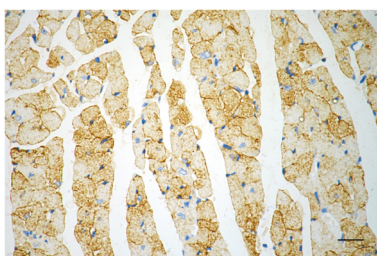
Western blotting analysis using caveolin 3 antibody (KVA01635). Caveolin 3 expression in wild type (WT) and caveolin 3 (CAV3) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with caveolin 3 antibody (KVA01635, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



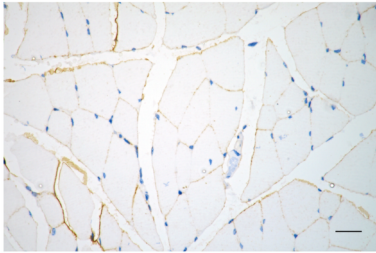
Western blotting analysis using caveolin 3 antibody (KVA01635). Total lysates (30 µg) from H9c2 cells and mouse heart tissue were loaded and separated by SDS-PAGE. The blot was incubated with caveolin 3 antibody (KVA01635, 1:5,000) and HRP-conjugated goat anti rabbit secondary antibody (APS0635, 1:10,000) respectively.



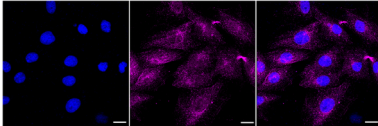
Western blotting analysis using Caveolin 3 antibody (KVA01635). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Caveolin 3 antibody (KVA01635, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



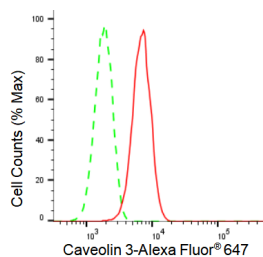
Immunohistochemistry was performed on paraffin-embedded mouse heart using caveolin 3 antibody (KVA01635, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunohistochemistry was performed on paraffin-embedded mouse skeletal muscle using caveolin 3 antibody (KVA01635, 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 μ m.



Immunocytochemical staining of HT-1080 cells with Caveolin 3 antibody (KVA01635, 1:1,000). Nuclei were stained blue with DAPI; Caveolin 3 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 μ m.



Flow cytometric analysis of Caveolin 3 expression in C2C12 cells using Caveolin 3 antibody (KVA01635, 1:2,000). Green, isotype control; red, Caveolin 3.