

Product Name: KD-Validated Calponin 1 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01440

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: 33.2kDa

Antigen Information

Gene Name	CNN1 CNN1; Calponin 1; Sm-Cal; SMCC; Calponin 1, Basic, Smooth Muscle; Calponin H1, Smooth
Alternative Names	Muscle; Basic Calponin; Calponin-1; Epididymis Secretory Protein Li 14; Calponins, Basi; HEL-S-14
Gene ID	1264.0
SwissProt ID	P51911
Immunogen	A synthesized peptide derived from human Calponin

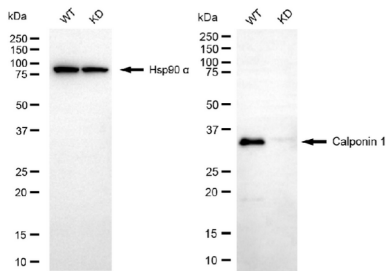
Background

Predicted to enable actin filament binding activity. Involved in negative regulation of vascular associated smooth muscle cell proliferation. Located in cytoskeleton. [provided by Alliance of Genome Resources, Jul 2025]

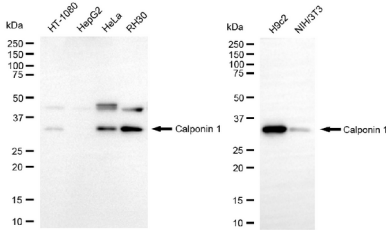
Research Area

Signal Transduction, Stem Cells, Cardiovascular

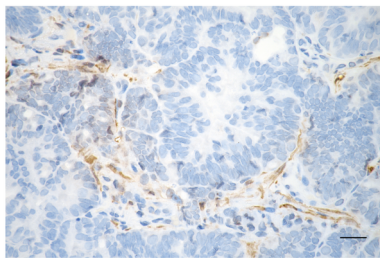
Image Data



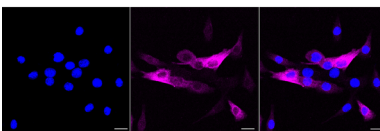
Western blotting analysis using calponin 1 antibody (KVA01440). Calponin 1 expression in wild-type (WT) and CNN1 knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with calponin 1 antibody (KVA01440, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



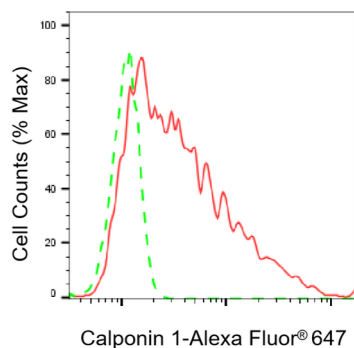
Western blotting analysis using calponin 1 antibody (KVA01440). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with calponin 1 antibody (KVA01440, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human endometrial carcinoma using calponin 1 antibody (KVA01440, 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 C2C12 cells with Calponin 1 antibody (KVA01440, 1:1,000). Nuclei were stained blue with DAPI; Calponin 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.



Flow cytometric analysis of Calponin 1 expression in C2C12 cells using Calponin 1 antibody (KVA01440, 1:2,000). Green, isotype control; red, Calponin 1.