
Product Name: KD-Validated CNN2 Mouse Monoclonal Antibody**Catalog #: KVA01192**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
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 1:500-1:2,500; FC 1:100-1:1,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 33.7kDa

Antigen Information

Gene Name	CNN2
Alternative Names	CNN2; Calponin 2; Calponin H2, Smooth Muscle; Neutral Calponin; Calponin-2
Gene ID	1265.0
SwissProt ID	Q99439
Immunogen	Recombinant protein of human CNN2

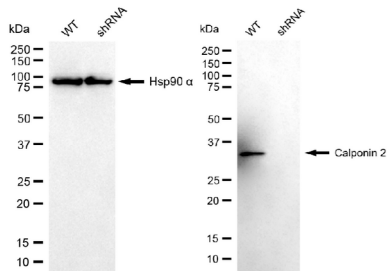
Background

The protein encoded by this gene, which can bind actin, calmodulin, troponin C, and tropomyosin, may function in the structural organization of actin filaments. The encoded protein could play a role in smooth muscle contraction and cell adhesion. Several pseudogenes of this gene have been identified, and are present on chromosomes 1, 2, 3, 6, 9, 11, 13, 15, 16, 21 and 22. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jan 2015]

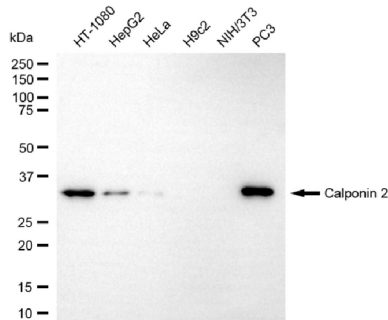
Research Area

Signal Transduction, Cardiovascular

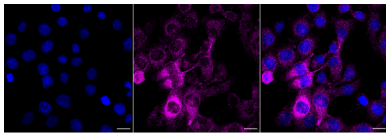
Image Data



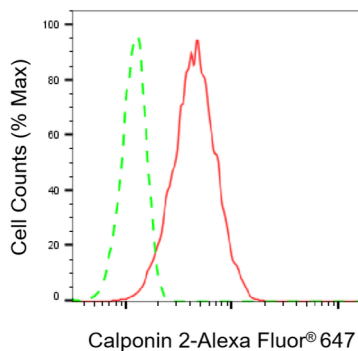
Western blotting analysis using calponin 2 antibody (KVA01192). Calponin 2 expression in wild type (WT) and calponin 2 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with calponin 2 antibody (KVA01192, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using calponin 2 antibody (KVA01192). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with calponin 2 antibody (KVA01192, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HT-1080 cells with Calponin 2 associated protein antibody (KVA01192, 1:1,000). Nuclei were stained blue with DAPI; Calponin 2 associated protein 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 2 expression in HT-1080 cells using Calponin 2 antibody (KVA01192, 1:1,000). Green, isotype control; red, Calponin 2.