

#### KD-Validated Anti-Caveolin 3 Rabbit Monoclonal Antibody Rabbit monoclonal antibody Catalog # AGI1160

### Specification

## **KD-Validated Anti-Caveolin 3 Rabbit Monoclonal Antibody - Product Information**

Application Primary Accession Reactivity Clonality Isotype Calculated MW Gene Name Aliases

Immunogen

WB, FC, ICC <u>P56539</u> Rat, Human Monoclonal Rabbit IgG Predicted, 17 kDa, observed, 17 kDa KDa CAV3 CAV3; Caveolin 3; M-Caveolin; VIP-21; LGMD1C; VIP21; LQT9; Caveolin-3; Cavolin 3; MPDT; RMD2 A synthesized peptide derived from Caveolin-3

### KD-Validated Anti-Caveolin 3 Rabbit Monoclonal Antibody - Additional Information

Gene ID Other Names Caveolin-3, M-caveolin, CAV3 859

### **KD-Validated Anti-Caveolin 3 Rabbit Monoclonal Antibody - Protein Information**

Name CAV3

#### Function

May act as a scaffolding protein within caveolar membranes. Interacts directly with G-protein alpha subunits and can functionally regulate their activity. May also regulate voltage-gated potassium channels. Plays a role in the sarcolemma repair mechanism of both skeletal muscle and cardiomyocytes that permits rapid resealing of membranes disrupted by mechanical stress (By similarity). Mediates the recruitment of CAVIN2 and CAVIN3 proteins to the caveolae (PubMed:<a href="http://www.uniprot.org/citations/19262564" target="\_blank">19262564</a>).

**Cellular Location** 

Golgi apparatus membrane; Peripheral membrane protein. Cell membrane {ECO:0000250|UniProtKB:P51638}; Peripheral membrane protein. Membrane, caveola {ECO:0000250|UniProtKB:P51637}; Peripheral membrane protein. Cell membrane, sarcolemma {ECO:0000250|UniProtKB:P51637}. Note=Potential hairpin-like structure in the membrane. Membrane protein of caveolae (By similarity)

**Tissue Location** Expressed predominantly in muscle.



# KD-Validated Anti-Caveolin 3 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- <u>Blocking Peptides</u>
- Dot Blot
- Immunohistochemistry
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# KD-Validated Anti-Caveolin 3 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Caveolin 3 antibody (Cat#AGI1160). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Caveolin 3 antibody (Cat#AGI1160, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Caveolin 3 antibody (Cat#AGI1160). Caveolin 3 expression in wild type (WT) and Caveolin 3 shRNA knockdown (KD) HeLa cells with 30  $\mu$ g of total cell lysates.  $\beta$ -Tubulin serves as a loading control. The blot was incubated with anti-Caveolin 3 antibody (Cat#AGI1160, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.





Flow cytometric analysis of Caveolin 3 expression in H9c2 cells using Caveolin 3 antibody (Cat#AGI1160, 1:2,000). Green, isotype control; red, Caveolin 3.



Immunocytochemical staining of H9c2 cells with Caveolin 3 antibody (Cat#AGI1160, 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  $\mu$ m.