10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

KD-Validated Anti-Caveolin 3 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1159

Specification

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

Application	**WB, FC, ICC**
Primary Accession	P56539
Reactivity	**Rat**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 17 kDa, observed, 17 kDa KDa**
Gene Name	**CAV3**
Aliases	**CAV3; Caveolin 3; M-Caveolin; VIP-21; LGMD1C; VIP21; LQT9; Caveolin-3; Cavolin 3; MPDT; RMD2**
Immunogen	**A synthesized peptide derived from Caveolin-3**

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

Gene ID	**859**

Other Names
Caveolin-3, M-caveolin, CAV3

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:19262564).

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.

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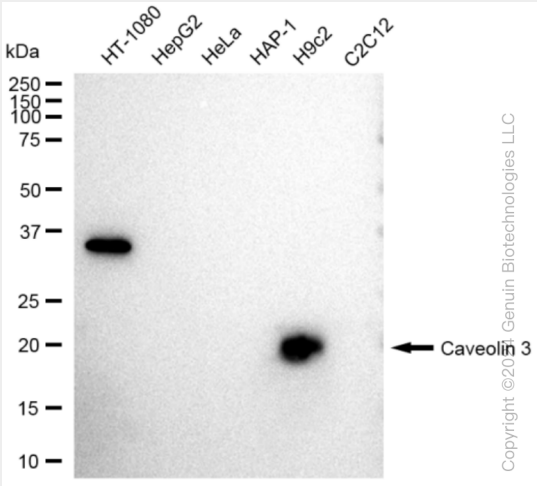
KD-Validated Anti-Caveolin 3 Rabbit Monoclonal Antibody - Protocols

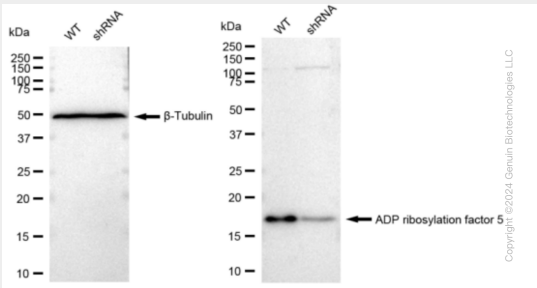
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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



Western blotting analysis using anti-Caveolin 3 antibody (Cat#AGI1159). 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#AGI1159, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Caveolin 3 antibody (Cat#AGI1159). Caveolin 3 expression in wild type (WT) and Caveolin 3 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Caveolin 3 antibody (Cat#AGI1159, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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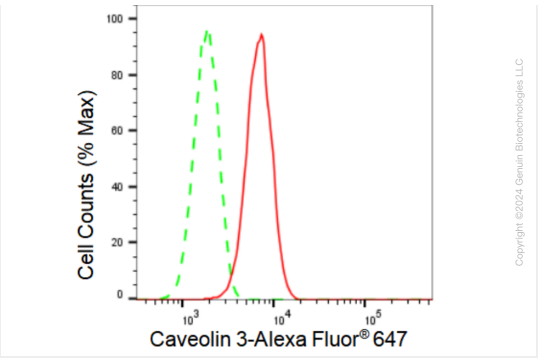
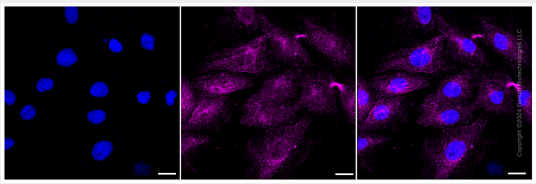


Flow cytometric analysis of Caveolin 3 expression in C2C12 cells using Caveolin 3 antibody (Cat#AGI1159, 1:2000). Green, isotype control; red, Caveolin 3.



Immunocytochemical staining of HT-1080 cells with Caveolin 3 antibody (Cat#AGI1159, 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 µm.