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CAV3 Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6516A

Specification

CAV3 Antibody (N-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	P56539
Other Accession	P51638, Q3ZDQ5, P51637, Q2KI43
Reactivity	**Human**
Predicted	**Bovine, Mouse, Pig, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
Calculated MW	**17259**
Antigen Region	**5-31**

CAV3 Antibody (N-term) - Additional Information

Gene ID 859

Other Names
Caveolin-3, M-caveolin, CAV3

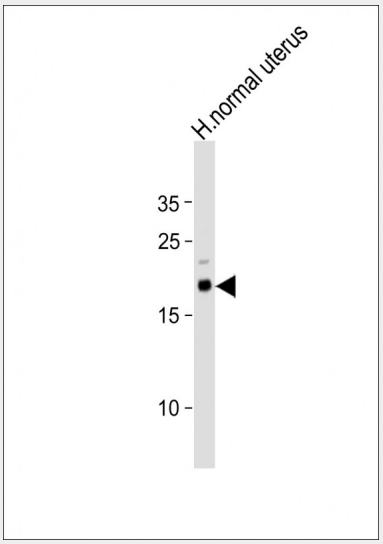
Target/Specificity
This CAV3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 5-31 amino acids from the N-terminal region of human CAV3.

Dilution
WB~~1:1000
IHC-P~~1:10~50
FC~~1:10~50

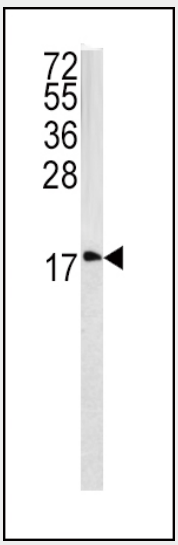
Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions



Anti-CAV3 Antibody (N-term)at 1:500 dilution + human normal uterus lysates
Lysates/proteins at 20 µg per lane.
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution
Predicted band size : 17 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot analysis of CAV3 antibody (N-term) (Cat.# AP6516a) in 293 cell line lysates (35ug/lane). CAV3 (arrow) was detected using the purified Pab.

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CAV3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CAV3 Antibody (N-term) - 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).

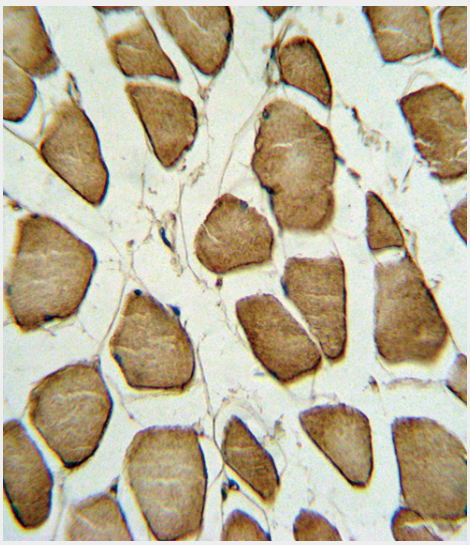
Cellular Location
Golgi apparatus membrane; Peripheral membrane protein. Cell membrane {ECO:0000250|UniProtKB:P51638}; Peripheral membrane protein. Membrane, caveola {ECO:0000250|UniProtKB:P51637}; Peripheral membrane protein. Cell membrane, sarcolemma {ECO:0000250|UniProtKB:P51637}. Note=Potential hairpin-like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

Tissue Location
Expressed predominantly in muscle.

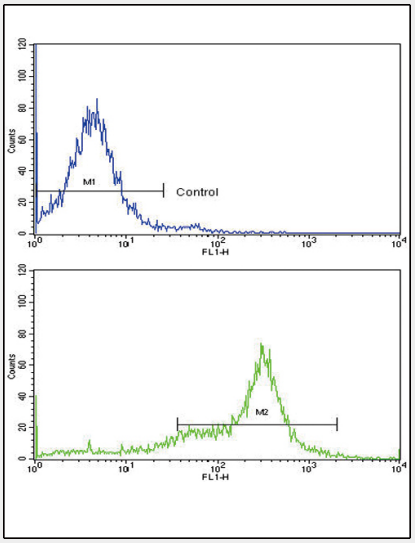
CAV3 Antibody (N-term) - Protocols

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



Formalin-fixed and paraffin-embedded human Skeletal muscle reacted with CAV3 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of 293 cells using CAV3 Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

CAV3 Antibody (N-term) - Background

CAV3 is 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 its 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).

CAV3 Antibody (N-term) - References

Garg,V., Biochem. Biophys. Res. Commun. 385 (3), 472-477 (2009)
Cai,C., . Biol. Chem. 284 (23), 15894-15902 (2009)