ARG41681
anti-Caveolin 3 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Caveolin 3
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Caveolin 3
Species	Human
Immunogen	Recombinant protein corresponding to M1-D55 of Human Caveolin 3.
Conjugation	Un-conjugated
Alternate Names	VIP-21; VIP21; LQT9; Caveolin-3; LGMD1C; M-caveolin

Application Instructions

Application table

Application	Dilution
IHC-P	1:200 - 1:1000
WB	1:500 - 1:2000

Application Note: IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: ~ 22 kDa

Properties

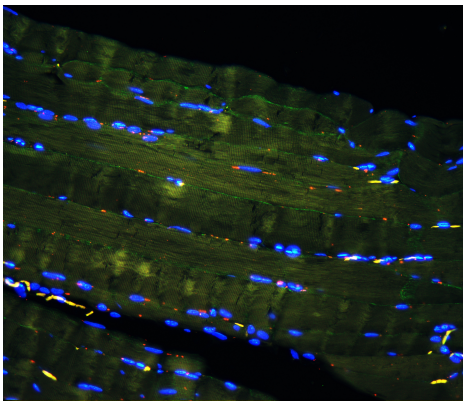
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na2HPO4, 0.9% NaCl, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

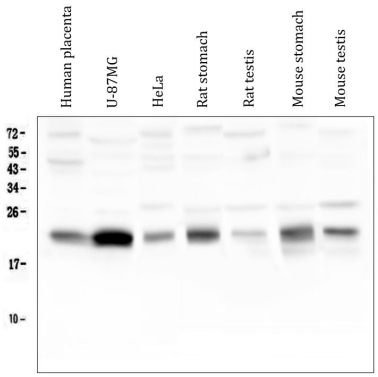
Gene Symbol	CAV3
Gene Full Name	caveolin 3
Background	This gene encodes a caveolin family member, which functions as a component of the caveolae plasma membranes found in most cell types. Caveolin proteins are proposed to be scaffolding proteins for organizing and concentrating certain caveolin-interacting molecules. Mutations identified in this 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). Alternative splicing has been identified for this locus, with inclusion or exclusion of a differentially spliced intron. In addition, transcripts utilize multiple polyA sites and contain two potential translation initiation sites. [provided by RefSeq, Jul 2008]
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. [UniProt]
Calculated Mw	17 kDa
PTM	Sumoylation with SUMO3 by PIAS4 may reduce agonist-induced internalization and desensitization of adrenergic receptor ABRD2. [UniProt]
Cellular Localization	Golgi apparatus membrane; Peripheral membrane protein. Cell membrane; Peripheral membrane protein. Membrane, caveola; Peripheral membrane protein. Cell membrane, sarcolemma. Note=Potential hairpin-like structure in the membrane. Membrane protein of caveolae (By similarity). [UniProt]

Images



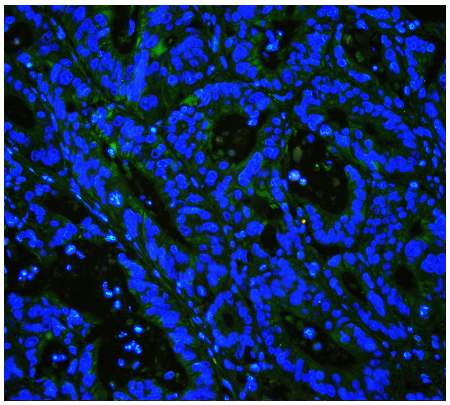
ARG41681 anti-Caveolin 3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human skeletal muscle tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41681 anti-Caveolin 3 antibody at 1 µg/ml dilution, overnight at 4°C.



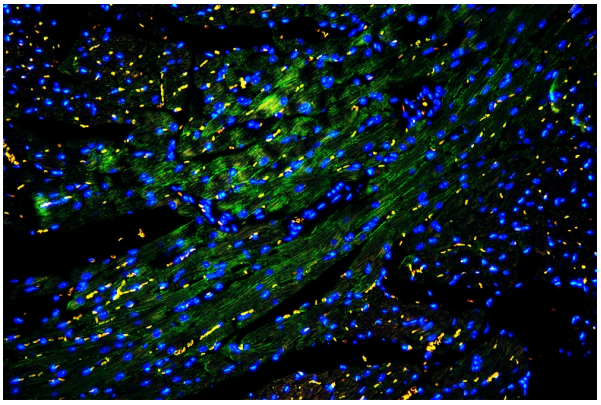
ARG41681 anti-Caveolin 3 antibody WB image

Western blot: 50 µg of samples under reducing conditions. Human placenta, U-87MG, HeLa, Rat stomach, Rat testis, Mouse stomach and Mouse testis lysates stained with ARG41681 anti-Caveolin 3 antibody at 0.5 µg/ml dilution, overnight at 4°C.



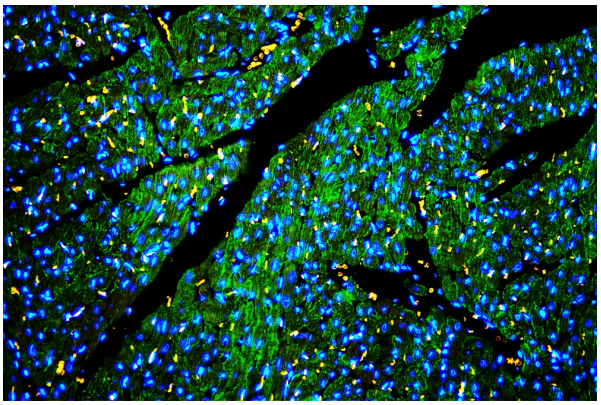
ARG41681 anti-Caveolin 3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human intestinal cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41681 anti-Caveolin 3 antibody at 1 µg/ml dilution, overnight at 4°C.



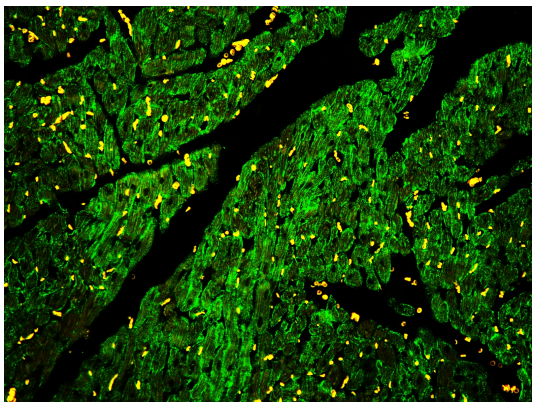
ARG41681 anti-Caveolin 3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse cardiac muscle tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41681 anti-Caveolin 3 antibody at 1 µg/ml dilution, overnight at 4°C.



ARG41681 anti-Caveolin 3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat cardiac muscle tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41681 anti-Caveolin 3 antibody at 1 µg/ml dilution, overnight at 4°C.



ARG41681 anti-Caveolin 3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat cardiac muscle tissues. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41681 anti-Caveolin 3 antibody at 1 µg/ml dilution, overnight at 4°C.