

Product datasheet

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ARG41649 anti-Caveolin 3 antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes Caveolin 3

Tested Reactivity Hu, Ms, Rat

Tested Application IP, WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name Caveolin 3
Species Human

Immunogen Synthetic peptide of Human Caveolin 3.

Conjugation Un-conjugated

Alternate Names VIP-21; VIP21; LQT9; Caveolin-3; LGMD1C; M-caveolin

Application Instructions

Application table	Application	Dilution
	IP	1:50
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Human fetal heart	
Observed Size	~ 19 kDa	

Properties

Form Liquid

Purification Affinity purified.

Buffer PBS (pH 7.4), 150 mM NaCl, 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

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. 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

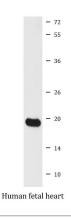
adrenergic receptor ABRD2. [UniProt]

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



ARG41649 anti-Caveolin 3 antibody WB image

Western blot: Human fetal heart lysate stained with ARG41649 anti-Caveolin 3 antibody.