

ARG57976 anti-Caveolin 1 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Caveolin 1
Tested Reactivity	Hu, Ms
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Caveolin 1
Species	Human
Immunogen	Synthetic peptide derived from Human Caveolin 1.
Conjugation	Un-conjugated
Alternate Names	CGL3; LCCNS; PPH3; MSTP085; VIP21; BSCL3; Caveolin-1

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:50 - 1:200
	IHC-P	1:50 - 1:200
	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	A431	
Observed Size	~ 22 kDa	

Properties

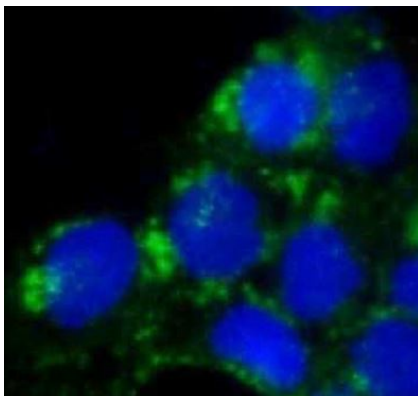
Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.4), 150mM NaCl, 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store 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

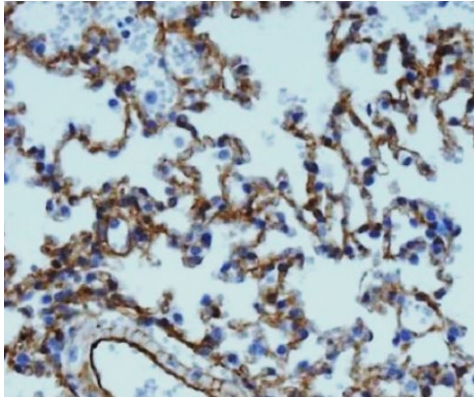
Gene Symbol	CAV1
Gene Full Name	caveolin 1, caveolae protein, 22kDa
Background	The scaffolding protein encoded by this gene is the main component of the caveolae plasma membranes found in most cell types. The protein links integrin subunits to the tyrosine kinase FYN, an initiating step in coupling integrins to the Ras-ERK pathway and promoting cell cycle progression. The gene is a tumor suppressor gene candidate and a negative regulator of the Ras-p42/44 mitogen-activated kinase cascade. Caveolin 1 and caveolin 2 are located next to each other on chromosome 7 and express colocalizing proteins that form a stable hetero-oligomeric complex. Mutations in this gene have been associated with Berardinelli-Seip congenital lipodystrophy. Alternatively spliced transcripts encode alpha and beta isoforms of caveolin 1.[provided by RefSeq, Mar 2010]
Function	May act as a scaffolding protein within caveolar membranes. Interacts directly with G-protein alpha subunits and can functionally regulate their activity (By similarity). Involved in the costimulatory signal essential for T-cell receptor (TCR)-mediated T-cell activation. Its binding to DPP4 induces T-cell proliferation and NF-kappa-B activation in a T-cell receptor/CD3-dependent manner. Recruits CTNNB1 to caveolar membranes and may regulate CTNNB1-mediated signaling through the Wnt pathway. [UniProt]
Highlight	Related Antibody Duos and Panels: ARG30310 Endosome, Lysosome, Peroxisome Marker Antibody Panel (Catalase, Caveolin1, Clathrin heavy chain, LAMP1) Related products: Caveolin 1 antibodies ; Caveolin 1 Duos / Panels ; Anti-Rabbit IgG secondary antibodies ;
Research Area	Endosome Marker antibody
Calculated Mw	20 kDa
PTM	The initiator methionine for isoform 2 is removed during or just after translation. The new N-terminal amino acid is then N-acetylated. Phosphorylated at Tyr-14 by ABL1 in response to oxidative stress. [UniProt]

Images



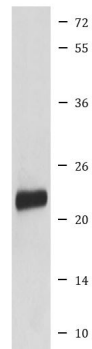
ARG57976 anti-Caveolin 1 antibody ICC/IF image

Immunofluorescence: A431 cells stained with ARG57976 anti-Caveolin 1 antibody (green).



ARG57976 anti-Caveolin 1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse lung stained with ARG57976 anti-Caveolin 1 antibody.



A431

ARG57976 anti-Caveolin 1 antibody WB image

Western blot: A431 cell lysate stained with ARG57976 anti-Caveolin 1 antibody.