

Product datasheet

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ARG57106 anti-Caveolin 1 antibody [4C1]

Package: $50 \mu l$ Store at: $-20 ^{\circ}C$

Summary

Product Description Mouse Monoclonal antibody [4C1] recognizes Caveolin 1

Tested Reactivity Hu, Rat

Tested Application ICC/IF, WB

Host Mouse

Clonality Monoclonal

Clone 4C1

Target Name Caveolin 1
Species Human

Immunogen Recombinant fragment around aa. 1-104 of Human Caveolin 1.

Conjugation Un-conjugated

Alternate Names CGL3; LCCNS; PPH3; MSTP085; VIP21; BSCL3; Caveolin-1

Application Instructions

Application table	Application	Dilution
	ICC/IF	Assay-dependent
	WB	1:250 - 1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form Liquid

Purification Purification with Protein G.

Buffer PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 10% Glycerol

Concentration 1 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. 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

Database links <u>GeneID: 857 Human</u>

Swiss-port # Q03135 Human

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 mitogenactivated 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]

Research Area Endosome Marker antibody

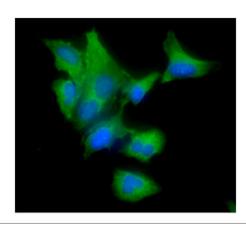
Calculated Mw 20 kDa

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.

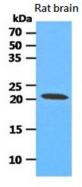
Images



ARG57106 anti-Caveolin 1 antibody [4C1] ICC/IF image

Immunofluorescence: A549 cells line stained with ARG57106 anti-Caveolin 1 antibody [4C1] at 1:100 (green).

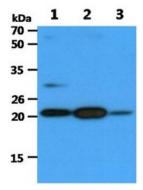
DAPI (Blue) for nucleus staining.



ARG57106 anti-Caveolin 1 antibody [4C1] WB image

Western blot: 40 μg of Rat brain lysate stained with ARG57106 anti-Caveolin 1 antibody [4C1] at 1:1000.

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ARG57106 anti-Caveolin 1 antibody [4C1] WB image

Western blot: 40 μg of 1) Mouse brain, 2) Mouse heart, and 3) A431 cell lysate stained with ARG57106 anti-Caveolin 1 antibody [4C1] at 1:1000.