

Product datasheet

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ARG51593 anti-Caveolin 1 phospho (Tyr14) antibody

Package: 100 μl, 50 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes Caveolin 1 phospho (Tyr14)

Tested Reactivity Hu, Ms, Rat
Tested Application ICC/IF, WB
Host Rabbit
Clonality Polyclonal

Isotype IgG

Target Name Caveolin 1
Species Human

Immunogen Peptide sequence around phosphorylation site of tyrosine 14 (H-L-Y(p)-T-V) 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	1:100 - 1:200
	WB	1:500 - 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 Antibodies were produced by immunizing rabbits with KLH-conjugated synthetic phosphopeptide.

Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. In addition, non-phospho specific antibodies were removed by chromatogramphy using non-

phosphopeptide.

Buffer PBS (without Mg2+ and Ca2+, pH 7.4), 150mM NaCl, 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% 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.

Bioinformation

Database links GeneID: 12389 Mouse

GeneID: 857 Human

Swiss-port # P49817 Mouse

Swiss-port # Q03135 Human

Gene Symbol CAV1

Gene Full Name caveolin 1, caveolae protein, 22kDa

Background The scaffolding protein encoded by Caveolin-1 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 MAP kinase cascade. CAV1 and CAV2 are located next to each other on chromosome 7 and express colocalizing proteins that form a stable hetero-oligomeric complex. By using alternative initiation codons in the same reading frame, two isoforms (alpha and beta) are encoded by a single transcript from this gene.

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

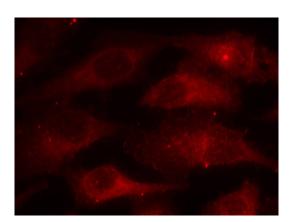
Calculated Mw 20 kDa

PTM The initiator methionine for isoform 2 is removed during or just after translation. The new N-terminal

amino acid is then N-acetylated.

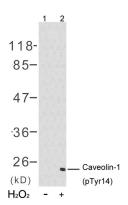
Phosphorylated at Tyr-14 by ABL1 in response to oxidative stress.

Images



ARG51593 anti-Caveolin 1 phospho (Tyr14) antibody ICC/IF image

Immunofluorescence: Methanol-fixed HeLa cells stained with ARG51593 anti-Caveolin 1 phospho (Tyr14) antibody.



ARG51593 anti-Caveolin 1 phospho (Tyr14) antibody WB image

Western blot: Extracts from 3T3 cells untreated (lane 1) or treated with H2O2 (lane 2) stained ARG51593 anti-Caveolin 1 phospho (Tyr14) antibody.