

Product datasheet

info@arigobio.com

ARG55068 anti-Caveolin 2 antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes Caveolin 2

Tested Reactivity Hu

Tested Application FACS, ICC/IF, IHC-P, WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name Caveolin 2

Species Human

Immunogen KLH-conjugated synthetic peptide corresponding to aa. 11-44 (N-terminus) of Human Caveolin 2.

Conjugation Un-conjugated
Alternate Names Caveolin-2; CAV

Application Instructions

Application table	Application	Dilution
	FACS	1:10 - 1:50
	ICC/IF	1:10 - 1:50
	IHC-P	Assay-dependent
	WB	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	Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.	
Buffer	PBS and 0.09% (W/V) Sodium azide	
Preservative	0.09% (W/V) Sodium azide	
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.	

www.arigobio.com arigo.nuts about antibodies 1/3

Bioinformation

Database links GeneID: 858 Human

Swiss-port # P51636 Human

Gene Symbol CAV2

Gene Full Name caveolin 2

Background The protein encoded by this gene is a major component of the inner surface of caveolae, small

invaginations of the plasma membrane, and is involved in essential cellular functions, including signal transduction, lipid metabolism, cellular growth control and apoptosis. This protein may function as a tumor suppressor. This gene and related family member (CAV1) are located next to each other on chromosome 7, and express colocalizing proteins that form a stable hetero-oligomeric complex. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. Additional isoforms resulting from the use of alternate in-frame translation initiation codons have also been described, and shown to have preferential localization in the cell (PMID:11238462). [provided by

RefSeq, May 2011]

Function May act as a scaffolding protein within caveolar membranes. Interacts directly with G-protein alpha

subunits and can functionally regulate their activity. Acts as an accessory protein in conjunction with CAV1 in targeting to lipid rafts and driving caveolae formation. The Ser-36 phosphorylated form has a role in modulating mitosis in endothelial cells. Positive regulator of cellular mitogenesis of the MAPK signaling pathway. Required for the insulin-stimulated nuclear translocation and activation of MAPK1

and STAT3, and the subsequent regulation of cell cycle progression (By similarity). [UniProt]

Research Area Cell Biology and Cellular Response antibody; Cell Death antibody; Controls and Markers antibody

Calculated Mw 18 kDa

PTM Phosphorylated on serine and tyrosine residues. CAV1 promotes phosphorylation on Ser-23 which then

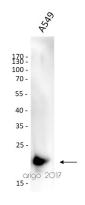
targets the complex to the plasma membrane, lipid rafts and caveolae. Phosphorylation on Ser-36 appears to modulate mitosis in endothelial cells (By similarity). Phosphorylation on both Tyr-19 and Tyr-27 is required for insulin-induced 'Ser-727' phosphorylation of STAT3 and its activation.

Phosphorylation on Tyr-19 is required for insulin-induced phosphorylation of MAPK1 and DNA binding

of STAT3. Tyrosine phosphorylation is induced by both EGF and insulin (By similarity).

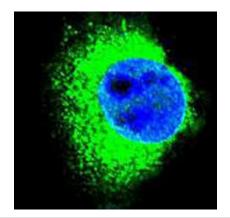
Cellular Localization Cell membrane, Cytoplasm, Golgi apparatus, Membrane, Nucleus

Images



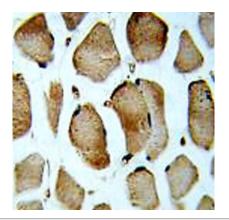
ARG55068 anti-Caveolin 2 antibody WB image

Western blot: 30 μg of A549 cell lysate stained with ARG55068 anti-Caveolin 2 antibody at 1:1000 dilution.



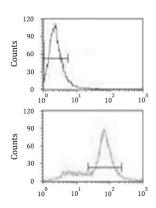
ARG55068 anti-Caveolin 2 antibody ICC/IF image

Immunofluorescence: MDA-MB-231 cells stained with ARG55068 anti-Caveolin 2 antibody (green). DAPI (blue) for nuclear staining.



ARG55068 anti-Caveolin 2 antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human skeletal muscle stained with ARG55068 anti-Caveolin 2 antibody.



ARG55068 anti-Caveolin 2 antibody FACS image

Flow Cytometry: MDA-MB231 cells stained with ARG55068 anti-Caveolin 2 antibody (bottom histogram) or without primary antibody control (top histogram), followed by incubation with FITC labelled secondary antibody.