

ARG63780 anti-Caveolin 1 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes Caveolin 1
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat, Dog, Pig
Tested Application	FACS, ICC/IF, IHC-P, WB
Specificity	No cross-reactivity expected to Caveolin 2 and Caveolin 3
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	Caveolin 1
Species	Human
Immunogen	C-DELSEKQVYDAH
Conjugation	Un-conjugated
Alternate Names	CGL3; LCCNS; PPH3; MSTP085; VIP21; BSCL3; Caveolin-1

Application Instructions

Application table	Application	Dilution
	FACS	10 µg/ml
	ICC/IF	10 µg/ml
	IHC-P	Assay - dependent
	WB	0.001 - 0.01 µg/ml
Application Note	WB: Recommend incubate at RT for 1h. IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

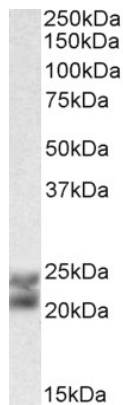
Form	Liquid
Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA

Concentration	0.5 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 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.

Bioinformation

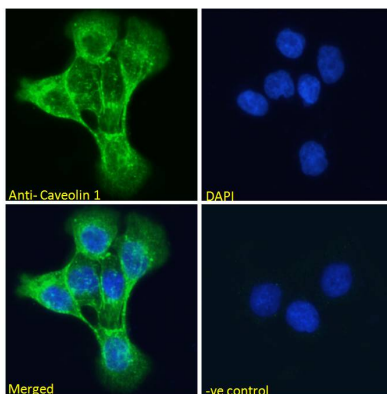
Database links	GeneID: 857 Human Swiss-port # Q03135 Human
Background	The scaffolding protein encoded by this gene is the main component of the caveolae plasma membranes found in most cell types. The protein links integrin subunits to the tyrosine kinase FYN, an initiating step in coupling integrins 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]
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



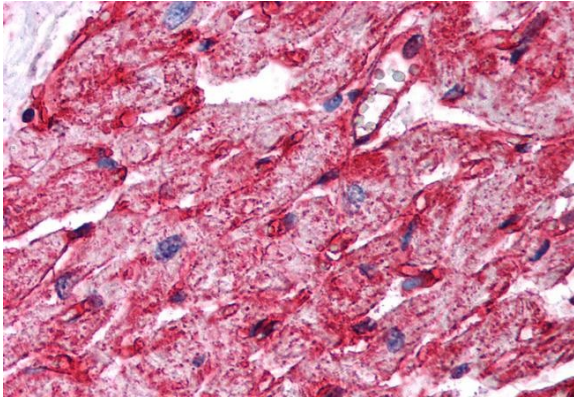
ARG63780 anti-Caveolin 1 antibody WB image

Western Blot: Human Spleen lysate (35 µg protein in RIPA buffer) stained with ARG63780 anti-Caveolin 1 antibody at 0.01 µg/ml dilution.



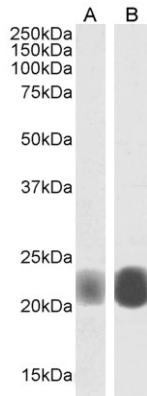
ARG63780 anti-Caveolin 1 antibody ICC/IF image

Immunofluorescence: Paraformaldehyde fixed A431 cells permeabilized with 0.15% Triton. Cells were stained with ARG63780 anti-Caveolin 1 antibody (green) at 10 µg/ml dilution for 1 hour. DAPI (blue) for nuclear staining. Negative control: Unimmunized goat IgG (green) at 10 µg/ml dilution.



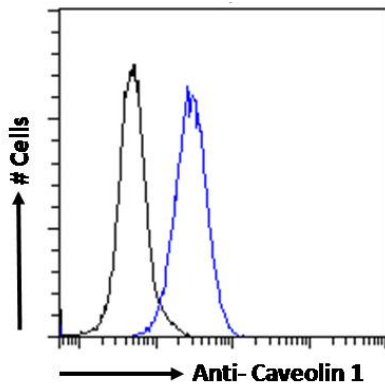
ARG63780 anti-Caveolin 1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human heart tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG63780 anti-Caveolin 1 antibody at 5 µg/ml dilution followed by AP-staining.



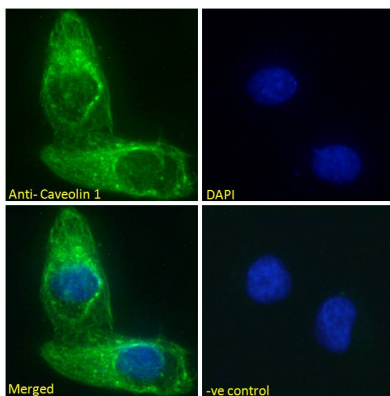
ARG63780 anti-Caveolin 1 antibody WB image

Western blot: 35 µg of A431 (A) and A549 (B) cell lysates (in RIPA buffer) stained with ARG63780 anti-Caveolin 1 antibody at 0.003 µg/ml (A) and 0.001 µg/ml (B) dilutions and incubated at RT for 1 hour.



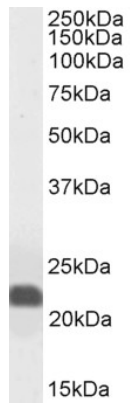
ARG63780 anti-Caveolin 1 antibody FACS image

Flow Cytometry: Paraformaldehyde-fixed HeLa cells permeabilized with 0.5% Triton. Cells were stained with ARG63780 anti-Caveolin 1 antibody (blue line) at 10 µg/ml dilution and overnight, followed by incubation with Alexa FluorR 488 labelled secondary antibody. IgG control: Unimmunized goat IgG (black line).



ARG63780 anti-Caveolin 1 antibody ICC/IF image

Immunofluorescence: Paraformaldehyde fixed U2OS cells permeabilized with 0.15% Triton. Cells were stained with ARG63780 anti-Caveolin 1 antibody (green) at 10 µg/ml dilution for 1 hour. DAPI (blue) for nuclear staining. Negative control: Unimmunized goat IgG (green) at 10 µg/ml dilution.



ARG63780 anti-Caveolin 1 antibody WB image

Western blot: 35 µg of Human heart lysate (in RIPA buffer) stained with ARG63780 anti-Caveolin 1 antibody at 0.003 µg/ml dilution and incubated at RT for 1 hour.