www.antibodiesinc.com
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530-758-4400

PRODUCT DATASHEET

Anti-Caveolin-1 Antibody

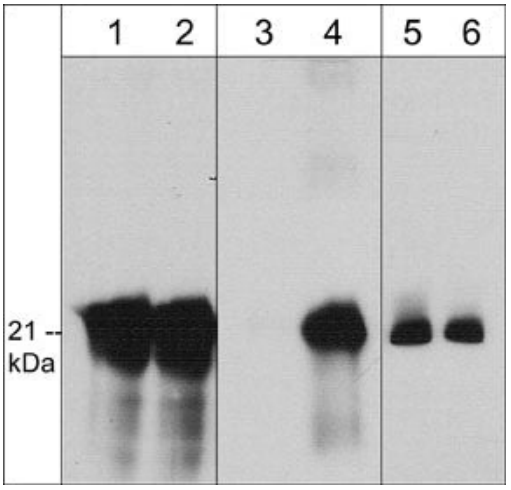
phosphosolutions ANTIBODIES THAT WORK

Product Details

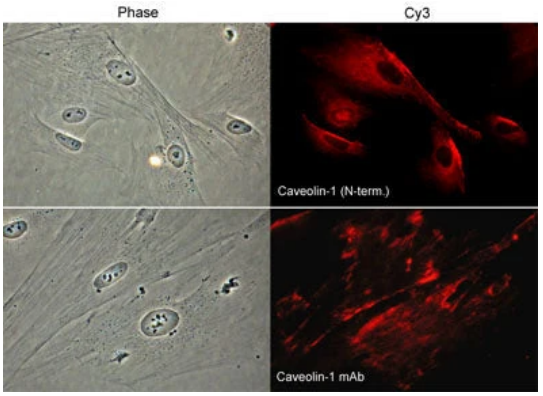
Available Variants	100 µL (SKU:CM2811)
Conjugate	Unconjugated
Isotype	IgG1
Clone	M281
Gene Name	CAV1
Host Species	Mouse
Format	Protein A Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, ICC, WB
Dilution Ranges	WB: 1:500 ICC: 1:50
Species Reactivity	Chicken, Human, Mouse, Rat
Immunogen	Clone (M281) was generated from a full length recombinant human Caveolin-1 protein.
Specificity	This antibody detects a 21 kDa* protein corresponding to the apparent molecular mass of caveolin-1 on SDS-PAGE immunoblots of human A431 cells and rabbit spleen fibroblasts.
Molecular Weight	21
Quality Control	Western blots performed on each lot.
Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.

UniProt ID	Q03135 UniProt Summary: May act as a scaffolding protein within caveolar membranes. Forms a stable heterooligomeric complex with CAV2 that targets to lipid rafts and drives caveolae formation. Mediates the recruitment of CAVIN proteins (CAVIN1/2/3/4) to the caveolae. Interacts directly with G-protein alpha subunits and can functionally regulate their activity. 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. Negatively regulates TGFB1-mediated activation of SMAD2/3 by mediating the internalization of TGFBR1 from membrane rafts leading to its subsequent degradation. Binds 20(S)-hydroxycholesterol (20(S)-OHC).
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
NCBI Gene ID	857

Product Images



Western blot image of human A431 cells unstimulated (lanes 1, 3, & 5) or stimulated with pervanadate (1 mM) for 30 min (lanes 2, 4, & 6). The blots were probed with rabbit polyclonal caveolin-1 (N-term.) (lanes 1 & 2), mouse monoclonal caveolin-1 (Tyr-14) (lanes 3 & 4) or mouse monoclonal caveolin-1 (lanes 5 & 6).



Immunocytochemical labeling of caveolin-1 in paraformaldehyde-fixed and NP-40-permeabilized rabbit spleen fibroblasts. The cells were labeled with rabbit polyclonal Caveolin-1 (N-terminal region) and mouse monoclonal Caveolin-1 antibodies, and detected using appropriate secondary antibodies conjugated to Cy3. Phase contrast images (left) and immunofluorescent images (right).