

Datasheet for ABIN968108

anti-Caveolin 2 antibody (AA 42-162)

2 Images

6 Publications



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Overview

Quantity:	50 µg
Target:	Caveolin 2 (CAV2)
Binding Specificity:	AA 42-162
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Caveolin 2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Human Caveolin 2 aa. 42-162
Clone:	65-Caveolin 2
Isotype:	IgG1
Cross-Reactivity:	Mouse (Murine), Rat (Rattus)
Characteristics:	<ol style="list-style-type: none"> 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

Product Details

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
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Target Details

Target:	Caveolin 2 (CAV2)
Alternative Name:	Caveolin 2 (CAV2 Products)
Background:	Identified as a tyrosine phosphorylated protein in Rous sarcoma virus- transformed chick embryo fibroblasts (CEF), caveolin is now known to be ubiquitously expressed. Caveolin (also known as VIP21) localizes to non-clathrin membrane invaginations (caveolae) on the inner surface of the plasma membrane. This transmembrane protein plays a structural role in these specializations. Caveolin is also present at the trans-Golgi network (TGN) and similar quantities are found in apically and basolaterally destined transport vesicles. Caveolin is part of a complex containing glycosylphosphatidylinositol (GPI)-linked molecules and cytoplasmic signaling proteins. Caveolin is a transmembrane adaptor molecule that can simultaneously recognize GPI-linked proteins and interact with downstream cytoplasmic signaling molecules, such as c-yes, Annexin II, and hetero-trimeric G proteins. Although caveolin 2 is similar to caveolin 1 in distribution and tissue expression, caveolin 2 is most abundant in adipose tissue and its expression is up-regulated upon differentiation. This antibody has been reported to recognize an epitope located within region 79-88 of caveolin 2.
Molecular Weight:	20 kDa
Pathways:	Regulation of G-Protein Coupled Receptor Protein Signaling, Skeletal Muscle Fiber Development

Application Details

Comment:	Related Products: ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Storage:	-20 °C
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Storage Comment:	Store undiluted at -20° C.
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Publications

Product cited in:	Tauchi-Sato, Ozeki, Houjou, Taguchi, Fujimoto: "The surface of lipid droplets is a phospholipid monolayer with a unique Fatty Acid composition." in: The Journal of biological chemistry , Vol. 277, Issue 46, pp. 44507-12, (2002) (PubMed).
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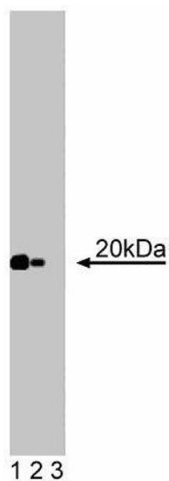
Woodman, Park, Cohen, Cheung, Chandra, Shirani, Tang, Jelicks, Kitsis, Christ, Factor, Tanowitz, Lisanti: "Caveolin-3 knock-out mice develop a progressive cardiomyopathy and show hyperactivation of the p42/44 MAPK cascade." in: **The Journal of biological chemistry**, Vol. 277, Issue 41, pp. 38988-97, (2002) ([PubMed](#)).

Zschocke, Manthey, Bayatti, van der Burg, Goodenough, Behl: "Estrogen receptor alpha-mediated silencing of caveolin gene expression in neuronal cells." in: **The Journal of biological chemistry**, Vol. 277, Issue 41, pp. 38772-80, (2002) ([PubMed](#)).

Kiss, Túri, Müllner, Tímár: "Caveolin isoforms in resident and elicited rat peritoneal macrophages." in: **European journal of cell biology**, Vol. 79, Issue 5, pp. 343-9, (2000) ([PubMed](#)).

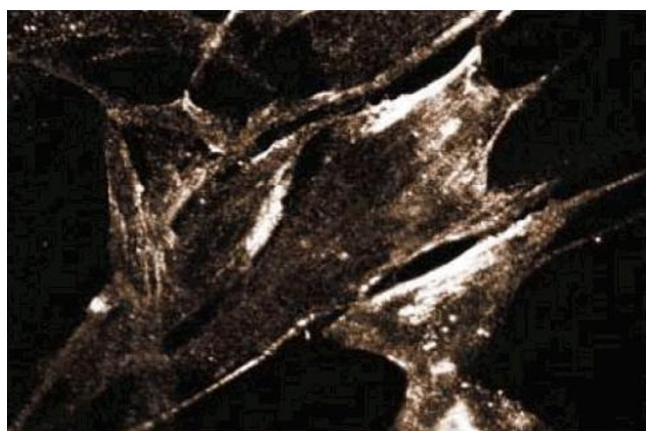
Das, Lewis, Scherer, Lisanti: "The membrane-spanning domains of caveolins-1 and -2 mediate the formation of caveolin hetero-oligomers. Implications for the assembly of caveolae membranes in vivo." in: **The Journal of biological chemistry**, Vol. 274, Issue 26, pp. 18721-8, (1999) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



Western Blotting

Image 1. Western blot analysis of Caveolin 2 on a RSV-3T3 cell lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the mouse anti-Caveolin 2 antibody.



Immunofluorescence

Image 2. Immunofluorescence staining of FHs cells (Normal human fetal lung fibroblasts, ATCC HTB-157).