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Datasheet for 600-401-J63

Caveolin-1 Antibody

Overview

Description:	Anti-Caveolin-1 (RABBIT) Antibody - 600-401-J63
Item No.:	600-401-J63
Size:	100 µg
Applications:	WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Caveolin 1 is a ubiquitous protein found within the membranes of caveolea, theoretically acting as a scaffolding protein. Direct interaction with G-protein alpha subunits allows regulation of their activity. A regulatory protein, it is involved in the costimulatory signal essential for T-cell receptor (TCR)-mediated T-cell activation, and is also a factor in the regulation of CTNNB1-mediated signaling through the Wnt pathway. Expressed in the muscle and lung tissues predominantly, defects in CAV1 is the cause of congenital generalized lipodystrophy type 3, or autosomal recessive disorders such as adipose tissue, extreme insulin resistance, hypertriglyceridemia, hepatic steatosis and early onset diabetes. Anti-Caveolin 1 antibody is ideal for researchers in Metabolism, Cancer, Signal Transduction, and Cardiovascular research.
Synonyms:	rabbit anti-Caveolin-1 Antibody, CAV1, CAV, CAV 1, rabbit anti-Caveolin 1 Antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CAV1
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Caveolin 1 affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide near the N-terminus of human Caveolin-1 protein.
Purity/Specificity:	Anti-Caveolin 1 was affinity purified from monospecific antiserum by immunoaffinity chromatography. A BLAST analysis was used to suggest cross-reactivity with lemur, sheep, bat, rat, rabbit, pig, and primate based on 100% sequence homology. Cross-reactivity with Caveolin 1 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q03135

Application Details

Tested Applications:	WB
Application Note:	Anti-Caveolin1 antibody has been tested in WB and is useful for ELISA and Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~21kDa corresponding to the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1: 10,000
WB:	1ug/ml

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.78 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	None
Stabilizer:	30% Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

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