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Datasheet for 600-401-J64

Caveolin-1 phospho S168 Antibody

Overview

Description:	Anti-Caveolin-1 pS168 (RABBIT) Antibody - 600-401-J64
Item No.:	600-401-J64
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 pS168 Antibody, CAV1, CAV, CAV 1, rabbit anti-Caveolin 1 pS168 Antibody, Caveolin1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CAV1
Reactivity:	Human
PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Caveolin 1 affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic phospho-peptide corresponding to the internal region of human Caveolin-1 protein.
Purity/Specificity:	Anti-Caveolin-1 pS168 was affinity purified from monospecific antiserum by immunoaffinity chromatography and is directed against the phosphorylated form of human S168 residue. A BLAST analysis was used to suggest cross-reactivity with primate, human, horse, cat, and dog based on 100% sequence homology. Cross-reactivity with Caveolin-1 pS168 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:	1.0mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer:	50% (v/v) 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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