ပ္
20
at at
بە دە
9
S
$\sim$
$\frac{\omega}{\omega}$
ניא

## **Caveolin-1 Antibody**



877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Applications: WB, IP, IHC-P, IF-IC, FC-FP	Reactivity: H M R Hm Z B Pg	Sensitivity: Endogenous	<b>MW (kDa):</b> 21, 24	<b>Source:</b> Rabbit	UniProt ID: #Q03135	<b>Entrez-Gene Id</b> : 857	
Product Usage	Арр	Application Dilution					
Information	Wes	stern Blotting				1:1000	
	Imn	nunoprecipitation				1:50	
	Imn	nunohistochemistry	(Paraffin)			1:250	
	Imn	nunofluorescence (	Immunocytochemis	try)		1:400	
	Flov	v Cytometry (Fixed	l/Permeabilized)			1:50	
Storage		olied in 10 mM sodi c. Do not aliquot the		i), 150 mM NaCl, 10	00 μg/ml BSA and 50%	glycerol. Store at –	
Specificity / Sens		Caveolin-1 Antibody detects endogenous levels of caveolin-1 protein. This antibody does not cross-react with caveolin-2 or -3.					
Source / Purifica	resid	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu20 of human caveolin-1. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	chole cave form in div apop signa eNO trans conta	The 21-24 kDa integral proteins, caveolins, are the principal structural components of the cholesterol/sphingolipid-enriched plasma membrane microdomain caveolae. Three members of the caveolin family (caveolin-1, -2, and -3) have been identified with different tissue distributions. Caveolins form hetero- and homo-oligomers that interact with cholesterol and other lipids (1). Caveolins are involved in diverse biological functions, including vesicular trafficking, cholesterol homeostasis, cell adhesion, and apoptosis, and are also implicated in neurodegenerative disease (2). Caveolins interact with multiple signaling molecules, such as G $\alpha$ subunit, tyrosine kinase receptors, PKCs, Src family tyrosine kinases, and eNOS (1,2). It is believed that caveolins serve as scaffolding proteins for the integration of signal transduction. Phosphorylation at Tyr14 is essential for caveolin association with SH2 or PTB domain-containing adaptor proteins, such as GRB7 (3-5). Phosphorylation at Ser80 regulates caveolin binding to the ER membrane and entry into the secretory pathway (6).					
Background Refe	2. Sr 3. No 4. Vo 5. Le	<ol> <li>Okamoto, T. et al. (1998) J Biol Chem 273, 5419-22.</li> <li>Smart, E.J. et al. (1999) Mol Cell Biol 19, 7289-304.</li> <li>Nomura, R. et al. (1999) Mol. Biol. Cell 10, 975-986.</li> <li>Volonte, D. et al. (2001) J. Biol. Chem. 276, 8094-8103.</li> <li>Lee, H. et al. (2000) Mol Endocrinol 14, 1750-75.</li> <li>Schlegel, A. et al. (2001) J Biol Chem 276, 4398-408.</li> </ol>					

**Species Reactivity** 

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key** 

WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)

IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)

**Cross-Reactivity Key** 

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

1/1/24, 2:36 PM

Trademarks and Patents

**Limited Uses** 

Caveolin-1 Antibody (#3238) Datasheet Without Images Cell Signaling Technology

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

Alexa Fluor is a registered trademark of Life Technologies Corporation.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.