Store at -200

## Caveolin-2 (D4A6) XP® Rabbit



Orders: 877-616-CELL (2355)

orders@cellsignal.com

877-678-TECH (8324) Support:

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

## For Research Use Only. Not for Use in Diagnostic Procedures. Dogotivity

<b>Applications:</b> WB, W-S, IP, IF-IC	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 21	Source/Isotype: Rabbit IgG	UniProt ID: #P51636	Entrez-Gene Id: 858	
Product Usage Information	Арј	Application				Dilution	
	We	Western Blotting				1:1000	
	Sim	ıple Western™				1:10 - 1:50	
	Imn	Immunoprecipitation 1:50					
	Imn	Immunofluorescence (Immunocytochemistry)				1:100	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at $-20$ °C. Do not aliquot the antibody.					
Specificity / Sensit		Caveolin-2 (D4A6) XP <sup>®</sup> Rabbit mAb recognizes endogenous levels of total caveolin-2 protein. Based on amino acid sequence, the antibody is not expected to cross-react with caveolin-1 or caveolin-3.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human caveolin protein.					
Background	chol cave form in di apop sign eNO trans cont	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 Refer	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 BSA, 1X TBS,

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key** WB: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation

**IF-IC:** Immunofluorescence (Immunocytochemistry)

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

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

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**Limited Uses** 

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