Caveolin-2 (D4A6) XP[®] Rabbit mAb





Orders:	877-616-CELL (2355) orders@cellsignal.com
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Web:	info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, 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		Application Western Blotting Simple Western™ Immunoprecipitation Immunofluorescence	(Immunocytochem	istry)		Dilution 1:1000 1:10 - 1:50 1:50 1:100		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sen	sitivity	Caveolin-2 (D4A6) XP [®] 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 / Purific	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human caveolin protein.						
Background		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 Ga 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 Re	eferences	1. Okamoto, T. et al. (1998) <i>J Biol Chem</i> 273, 5419-22. 2. Smart, E.J. et al. (1999) <i>Mol Cell Biol</i> 19, 7289-304. 3. Nomura, R. et al. (1999) <i>Mol. Biol. Cell</i> 10, 975-986. 4. Volonte, D. et al. (2001) <i>J. Biol. Chem</i> . 276, 8094-8103. 5. Lee, H. et al. (2000) <i>Mol Endocrinol</i> 14, 1750-75. 6. Schlegel, A. et al. (2001) <i>J Biol Chem</i> 276, 4398-408.						
Species Reactiv	/ity	Species reactivity is de	termined by testin	g in at least one approve	d application (e.g.	, western blot).		
Western Blot B	uffer	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 K	еу	W: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivit	у Кеу	H: Human Mk: Monkey						
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