Revision 5						
e at -20C	Villin-1 (R814) Antibody		Cell Signaling			
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com			
6		Support:	877-678-TECH (8324)			
#2369		Web:	info@cellsignal.com cellsignal.com			
<b>C</b> #		3 Trask Lane   Danvers   Massa	chusetts   01923   USA			

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

Applications: W	Reactivity: H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 95	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P09327	Entrez-Gene Id 7429		
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity/Sensitivity		Villin-1 (R814) Antibody recognizes endogenous levels of total villin-1 protein.						
Species predicted to react based on 100% sequence homology		Rat						
Source / Purifica	tion	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy terminus of human villin-1. Antibodies are purified using protein A and peptide affinitty chromatography.						
Background		Villin is a member of the gelsolin family of calcium-regulated actin-binding proteins. Unlike the ubiquitously expressed gelsolin, villin expression is restricted to simple epithelia of the gastrointestinal and urogenital tracts. It is localized to the apical cytoplasm and brush borders of these cells. Villin functions in the regulation of actin dynamics in the apical epithelium, capping, nucleating and/or severing actin filaments in a calcium-dependent manner and regulating cell shape in response to external stimuli (1,2). Phosphorylation of villin at Tyr60, 81, and 256 may be involved in the regulation of cell migration (3). Expression of villin is increased in colorectal cancers (4), and villin-1 function appears to be involved in progressive cholestasis and hepatic failure (5).						
Background References		1. Athman, R. et al. (2002) <i>Am. J. Physiol. Gastrointest. Liver Physiol.</i> 283, G496-502. 2. Kumar, N. et al. (2004) <i>J. Biol. Chem.</i> 279, 45036-45046. 3. Tomar, A. et al. (2004) <i>Mol. Biol. Cell</i> 15, 4807-4817. 4. Suh, N. et al. (2005) <i>Mod. Pathol.</i> 18, 1217-1222. 5. Phillips, M.J. et al. (2003) <i>Lancet</i> 362, 1112-1119.						
Species Reactivit	у	Species reactivity is d	etermined by testin	g in at least one approve	ed 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		W: Western Blotting						
Cross-Reactivity Key		H: Human M: Mouse						
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