e at -20C	BMPR2 Antibody						
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com				
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5979		Web:	info@cellsignal.com cellsignal.com				
)#		3 Trask Lane Danvers Mass	sachusetts 01923 USA				
For Research Use Only. Not for Use in Diagnostic Procedures.							

Applications: W	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 150	Source/Isotype: Rabbit	UniProt ID: #Q13873	Entrez-Gene Id: 659			
Product Usage Information		Application Western Blotting			Dilution 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		BMPR2 Antibody recognizes endogenous levels of total BMPR2 protein. This antibody may also detect a 115 Kd unspecific band.							
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys763 of human BMPR2 protein. Antibodies are purified by protein A and peptide affinity chromatography.							
Background		BMPR2 is a type II serine/threonine receptor kinase that binds to an array of secreted bone morphogenetic proteins (BMPs). BMPs belong to the superfamily of TGF- β ligands that modulate gastrulation, neurogenesis, chondrogenesis, interdigital cell death, and bone morphogenesis (1-5). In contrast to the TGF- β type II receptor, BMPR2 contains an extended carboxyl-terminal region that interacts with multiple signaling molecules to modulate the responsiveness of target genes to BMPs (6,7). BMP signaling requires oligomerization of both type I and type II receptors to elicit a functional response of target genes. BMP binding to type I and II receptors induces Smad1/5/8 phosphorylation which is required for the activation of target genes (7). <i>In vitro</i> and <i>in vivo</i> evidence suggests that defects in BMPR2 may contribute to pulmonary hypertension, inflammation, and endothelial injury (8,9).							
Background References		 Storm, E.E. et al. (1994) <i>Nature</i> 368, 639-43. Storm, E.E. and Kingsley, D.M. (1996) <i>Development</i> 122, 3969-79. Reddi, H. (1995) <i>Adv Dent Res</i> 9, 13. Zhang, H. and Bradley, A. (1996) <i>Development</i> 122, 2977-86. Dunn, N.R. et al. (1997) <i>Dev Biol</i> 188, 235-47. Kudo, T.A. et al. (2010) <i>Tohoku J Exp Med</i> 222, 121-9. Gilboa, L. et al. (2000) <i>Mol Biol Cell</i> 11, 1023-35. Machado, R.D. et al. (2001) <i>Am J Hum Genet</i> 68, 92-102. Long, L. et al. (2009) <i>Circulation</i> 119, 566-76. 							
Species Reactivity		Species reactivity is de	termined by testing	in at least one approve	d application (e.g., v	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		W: Western Blotting							
Cross-Reactivity Key		H: Human M: Mouse							
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