e at -20C	GLI1 Antibody				
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
		Support:	877-678-TECH (8324)		
#2553		Web:	info@cellsignal.com cellsignal.com		
#2		3 Trask Lane Danvers Mass	sachusetts 01923 USA		

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

 Applications:
 Reactivity:
 Sensitivity:
 MW (kDa):

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 160	Source/Isotype: Rabbit	UniProt ID: #P08151	Entrez-Gene Id 2735	
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50		
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/Sensit	ivity	GLI1 Antibody detects	endogenous levels	of total GLI1 protein.			
Source / Purificat	e / Purification Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly420 of human GLI1. Antibodies are purified by protein A and peptide affinity chromatography						
Background		GLI was first identified as a gene amplified in a malignant glioma (1) capable of transforming primary cells in cooperation with adenovirus E1A (2). GLI belongs to the Krüppel family of zinc finger proteins that includes three mammalian GLI proteins: GL11, GLI2, and GLI3 (3). These GLI proteins are similar to the <i>Drosophila</i> homolog Cubitus interruptus (Ci) and function as transcription factors activated by the Hedgehog signaling pathway. Hedgehog signaling plays an important role in animal development, and research studies have shown that this pathway is aberrantly activated in many types of cancers (4,5). GLI1 itself is a transcriptional target of the Hedgehog signaling pathway (6-8) and is used as a marker of Hedgehog signaling activation in cancer research (9,10).					
Background Refe	rences	1. Kinzler, K.W. et al. (19 2. Ruppert, J.M. et al. (1 3. Kinzler, K.W. et al. (19 4. Ingham, P.W. and Mc 5. McMahon, A.P. et al. 6. Lee, J. et al. (1997) <i>De</i> 7. Dahmane, N. et al. (1 8. Dai, P. et al. (1999) <i>J.</i> 9. Watkins, D.N. et al. (2 10. Karhadkar, S.S. et al	991) <i>Mol Cell Biol</i> 88) <i>Nature</i> 332, 37 Mahon, A.P. (2001 (2003) <i>Curr Top De</i> <i>evelopment</i> 124, 2 997) <i>Nature</i> 389, 8 <i>Biol. Chem.</i> 274, 8 2003) <i>Nature</i> 422, 3	11, 1724-8. 71-4.) <i>Genes Dev</i> 15, 3059-87 ev Biol 53, 1-114. 537-2552. 876-881. 143-8152. 313-317.			
Species Reactivit	ý	Species reactivity is det	ermined by testing	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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Key		W: Western Blotting IP	: Immunoprecipita	tion			
Cross-Reactivity l	Key	H: Human					
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		All other trademarks ar more information.	e the property of t	heir respective owners.	Visit cellsignal.com	/trademarks for	
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