

#2534 Store at -20C

GLI1 (V812) Antibody**Cell Signaling**
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP	H	Endogenous	160	Rabbit	#P08151	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 / Sensitivity	GLI1 (V812) Antibody detects the endogenous levels of total GLI1 protein.	
Species predicted to react based on 100% sequence homology:	Mouse, Rat	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val812 of human GLI1. Antibodies are purified by 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: GLI1, 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).	
Background References	1. Kinzler, K.W. et al. (1987) <i>Science</i> 236, 70-3. 2. Ruppert, J.M. et al. (1991) <i>Mol Cell Biol</i> 11, 1724-8. 3. Kinzler, K.W. et al. (1988) <i>Nature</i> 332, 371-4. 4. Ingham, P.W. and McMahon, A.P. (2001) <i>Genes Dev</i> 15, 3059-87. 5. McMahon, A.P. et al. (2003) <i>Curr Top Dev Biol</i> 53, 1-114.	

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