

Store at
-20°C
#11995

GLI1 (L42B10) Mouse mAb (Sepharose® Bead Conjugate)

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Entrez-Gene ID #2735
UniProt ID #P08151

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For Research Use Only. Not For Use In Diagnostic Procedures.

Applications IP Endogenous	Species Cross-Reactivity* H	Molecular Wt. 160 kDa	Isotype Mouse IgG1
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Description: This Cell Signaling Technology antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated Sepharose® beads. GLI1 (L42B10) Mouse mAb (Sepharose® Bead Conjugate) is useful for the immunoprecipitation of GLI1. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated GLI1 (L42B10) Mouse mAb #2643.

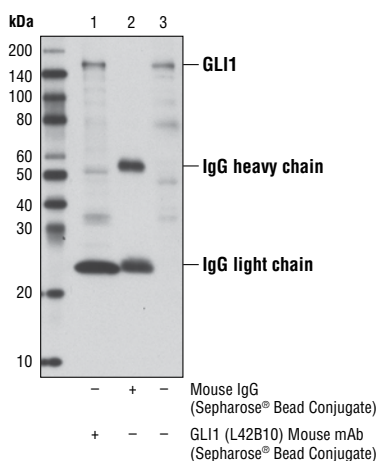
Background: GLI was first identified as a gene amplified in a malignant glioma (1) capable of transforming primary cells in cooperation with adenovirus E1A (2). GLI belongs to the Kruppel family of zinc finger proteins that includes three mammalian GLI proteins: GLI1, GLI2, and GLI3 (3). These GLI proteins are similar to the *Drosophila* 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).

Specificity/Sensitivity: GLI1 (L42B10) Mouse mAb (Sepharose® Bead Conjugate) recognizes endogenous levels of total GLI1 protein.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a recombinant human GLI1 protein.

Background References:

- (1) Kinzler, K.W. et al. (1987) *Science* 236, 70-3.
- (2) Ruppert, J.M. et al. (1991) *Mol Cell Biol* 11, 1724-8.
- (3) Kinzler, K.W. et al. (1988) *Nature* 332, 371-4.
- (4) Ingham, P.W. and McMahon, A.P. (2001) *Genes Dev* 15, 3059-87.
- (5) McMahon, A.P. et al. (2003) *Curr Top Dev Biol* 53, 1-114.



Immunoprecipitation of GLI1 from RMS-13 cell extracts, using GLI1 (L42B10) Mouse mAb (Sepharose® Bead Conjugate) (lane 1) or Mouse IgG (Sepharose® Bead Conjugate) #3420 (lane 2). Lane 3 is 10% input. Western blot analysis was performed using GLI1 (L42B10) Mouse mAb #2643.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Recommended Antibody Dilutions:

Immunoprecipitation 1:20

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.