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Store at -20C
#2643

GLI1 (L42B10) Mouse mAb

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

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 160	Source/Isotype: Mouse IgG1	UniProt ID: #P08151	Entrez-Gene Id: 2735
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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, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

GLI1 (L42B10) Mouse mAb detects endogenous levels of total GLI1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a recombinant human GLI1 protein.

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 *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).

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.

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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