

**GLI1 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2089a****Specification****GLI1 Antibody - Product Information**

Application	<b>E, WB, IF, FC, IHC</b>
Primary Accession	<a href="#">P08151</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG1</b>
Calculated MW	<b>118kDa KDa</b>

**Description**

This gene encodes a member of the Kruppel family of zinc finger proteins. The encoded transcription factor is activated by the sonic hedgehog signal transduction cascade and regulates stem cell proliferation. The activity and nuclear localization of this protein is negatively regulated by p53 in an inhibitory loop. Multiple transcript variants encoding different isoforms have been found for this gene.

**Immunogen**

Purified recombinant fragment of human GLI1 (AA: 284-449) expressed in E. Coli.

**Formulation**

Purified antibody in PBS with 0.05% sodium azide

**GLI1 Antibody - Additional Information**

**Gene ID** 2735

**Other Names**

Zinc finger protein GLI1, Glioma-associated oncogene, Oncogene GLI, GLI1, GLI

**Dilution**

E~~1/10000  
WB~~1/500 - 1/2000  
IF~~1/200 - 1/1000  
FC~~1/200 - 1/400  
IHC~~1/200 - 1/1000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

GLI1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**GLI1 Antibody - Protein Information**

## Name GLI1

## Synonyms GLI

### Function

Acts as a transcriptional activator (PubMed:<a href="http://www.uniprot.org/citations/10806483" target="\_blank">10806483</a>, PubMed:<a href="http://www.uniprot.org/citations/19706761" target="\_blank">19706761</a>, PubMed:<a href="http://www.uniprot.org/citations/19878745" target="\_blank">19878745</a>, PubMed:<a href="http://www.uniprot.org/citations/24076122" target="\_blank">24076122</a>, PubMed:<a href="http://www.uniprot.org/citations/24217340" target="\_blank">24217340</a>, PubMed:<a href="http://www.uniprot.org/citations/24311597" target="\_blank">24311597</a>). Binds to the DNA consensus sequence 5'-GACCACCCA-3' (PubMed:<a href="http://www.uniprot.org/citations/2105456" target="\_blank">2105456</a>, PubMed:<a href="http://www.uniprot.org/citations/24217340" target="\_blank">24217340</a>, PubMed:<a href="http://www.uniprot.org/citations/8378770" target="\_blank">8378770</a>). Regulates the transcription of specific genes during normal development (PubMed:<a href="http://www.uniprot.org/citations/19706761" target="\_blank">19706761</a>). Plays a role in craniofacial development and digital development, as well as development of the central nervous system and gastrointestinal tract. Mediates SHH signaling (PubMed:<a href="http://www.uniprot.org/citations/19706761" target="\_blank">19706761</a>, PubMed:<a href="http://www.uniprot.org/citations/28973407" target="\_blank">28973407</a>). Plays a role in cell proliferation and differentiation via its role in SHH signaling (PubMed:<a href="http://www.uniprot.org/citations/11238441" target="\_blank">11238441</a>, PubMed:<a href="http://www.uniprot.org/citations/28973407" target="\_blank">28973407</a>).

### Cellular Location

Cytoplasm. Nucleus. Note=Tethered in the cytoplasm by binding to SUFU (PubMed:10806483). Activation and translocation to the nucleus is promoted by interaction with STK36 (PubMed:10806483). Phosphorylation by ULK3 may promote nuclear localization (PubMed:19878745). Translocation to the nucleus is promoted by interaction with ZIC1 (PubMed:11238441)

### Tissue Location

Detected in testis (at protein level) (PubMed:2105456). Testis, myometrium and fallopian tube. Also expressed in the brain with highest expression in the cerebellum, optic nerve and olfactory tract (PubMed:19878745). Isoform 1 is detected in brain, spleen, pancreas, liver, kidney and placenta; isoform 2 is not detectable in these tissues (PubMed:19706761)

## GLI1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)