

# Recombinant Human GLI1 protein

**Cat. No.** GLI1-313H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human GLI1 was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.                                                                                                                                                                                                                                                                                                                                 |
| <b>Endotoxin</b>        | <1.0EU per 1g (determined by the LAL method)                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Purity</b>           | >95%                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Applications</b>     | SDS-PAGE; WB; ELISA; IP.                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage</b>          | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                                                                                         |
| <b>Reconstitution</b>   | Reconstitute in sterile PBS, pH7.2-pH7.4.                                                                                                                                                                                                                                                                                                                                                                            |

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## GENE INFORMATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | GLI1 GLI family zinc finger 1 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                     |
| <b>Official Symbol</b>     | GLI1                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Synonyms</b>            | GLI1; GLI family zinc finger 1; GLI, glioma associated oncogene family zinc finger 1 , glioma associated oncogene homolog 1 (zinc finger protein); zinc finger protein GLI1; oncogene GLI; glioma-associated oncogene 1; glioma-associated oncogene homolog 1 (zinc finger protein); GLI;                                                                                                          |
| <b>Gene ID</b>             | 2735                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>mRNA Refseq</b>         | NM_001160045                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Protein Refseq</b>      | NP_001153517                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>MIM</b>                 | 165220                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>UniProt ID</b>          | P08151                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Chromosome Location</b> | 12q13.2-q13.3                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Pathway</b>             | Basal cell carcinoma, organism-specific biosystem; Basal cell carcinoma, conserved biosystem; Hedgehog Signaling Pathway, organism-specific biosystem; Hedgehog signaling events mediated by Gli proteins, organism-specific biosystem; Hedgehog signaling pathway, organism-specific biosystem; Hedgehog signaling pathway, conserved biosystem; Pathways in cancer, organism-specific biosystem; |
| <b>Function</b>            | DNA binding; metal ion binding; protein binding; transcription regulatory region DNA                                                                                                                                                                                                                                                                                                               |

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