## Overview

### Product name
- Anti-Gli1 antibody

### Description
- Rabbit polyclonal to Gli1

### Host species
- Rabbit

### Tested applications
- **Suitable for:** WB, IHC-P

### Species reactivity
- **Reacts with:** Human

### Immunogen
- Recombinant fragment corresponding to Human Gli1 aa 768-1106 (C terminal).
- Sequence:
  - QQASYPDPTQETW GEFPSHSGLY PGPKALGGTY
  - SQCPRLEHYG QVQVKPEQGC PVGSDSTGLA
  - PCLNAHPSEG PHPQPLFSH YPQSPPPQYL
  - QSGPYTQPPP DYLSEPRPC LDFDSPTHST
  - GQLKAQLVCN YVQSOQELLLW EGGGREDAPA
  - QEPSYQSKF LGGSQVSPSR AKAPVNTYGP
  - GFGNLPHK SGSSYTPPSPC HENFVGNAR
  - ASHRAAPPR LPPPLPTCYG PLKVGGTNPS
  - CGHPGVRLG GGPALYPPE GQVCNPLDSL
  - DLNDQLDFV AILDEPQGLS PPSSHQRGSGH TPPPSPGP PNMAVGNMSV LLRSLPGETE
  - FLN SSA

  Database link: P08151

### Positive control
- WB: Recombinant human Gli1 protein; U87, MCF7, HeLa, SKOV, HT1080, COLO320 and HepG2 whole cell lysate (ab7900). IHC-P: Human intestinal cancer tissue.

## Properties

### Form
- Liquid

### Storage instructions

### Storage buffer
- Preservative: 0.025% Sodium azide
- Constituents: 2.5% BSA, 0.1% Dibasic monohydrogen sodium phosphate, 0.45% Sodium chloride
**Purity**
Immunogen affinity purified

**Clonality**
Polyclonal

**Isotype**
IgG

### Applications

Our Abpromise guarantee covers the use of ab217326 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
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<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 0.1 - 0.5 µg/ml. Detects a band of approximately 118 kDa (predicted molecular weight: 118 kDa). The detection limit for GLI1 is approximately 0.25 ng/lane under reducing conditions.</td>
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<tr>
<td>IHC-P</td>
<td></td>
<td>Use a concentration of 0.5 - 1 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.</td>
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### Target

**Function**
Acts as a transcriptional activator. May regulate the transcription of specific genes during normal development. May play a role in craniofacial development and digital development, as well as development of the central nervous system and gastrointestinal tract. Mediates SHH signaling and thus cell proliferation and differentiation.

**Tissue specificity**
Testis, myometrium and fallopian tube. Also expressed in the brain with highest expression in the cerebellum, optic nerve and olfactory tract.

**Sequence similarities**
Belongs to the GLI C2H2-type zinc-finger protein family. Contains 5 C2H2-type zinc fingers.

**Post-translational modifications**
Phosphorylated in vitro by ULK3.

**Cellular localization**
Cytoplasm. Nucleus. Tethered in the cytoplasm by binding to SUFU. Activation and translocation to the nucleus is promoted by interaction with STK36. Phosphorylation by ULK3 may promote nuclear localization. Translocation to the nucleus is promoted by interaction with ZIC1.

### Images
**Western blot - Anti-Gli1 antibody (ab217326)**

- **All lanes**: Anti-Gli1 antibody (ab217326) at 0.5 µg/ml
- **Lane 1**: U87 whole cell lysate
- **Lane 2**: MCF7 whole cell lysate
- **Lane 3**: HeLa whole cell lysate
- **Lane 4**: SKOV whole cell lysate
- **Lane 5**: HT1080 whole cell lysate
- **Lane 6**: COLO320 whole cell lysate
- **Lane 7**: HepG2 whole cell lysate

Lysates/proteins at 40 µg per lane.

**Predicted band size**: 118 kDa

**Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Gli1 antibody (ab217326)**

Immunohistochemical analysis of paraffin-embedded human intestinal cancer tissue labeling Gli1 with ab217326 at 1 µg/mL.
Anti-Gli1 antibody (ab217326) at 0.5 µg/ml + recombinant human GLI1 protein, 5 ng

**Predicted band size:** 118 kDa