

**Anti-Gli3 Antibody**  
**Catalog # ABO11075****Specification**

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**Anti-Gli3 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P10071</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Transcriptional activator GLI3(GLI3) detection. Tested with WB in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-Gli3 Antibody - Additional Information**

**Gene ID** 2737

**Other Names**

Transcriptional activator GLI3, GLI3 form of 190 kDa, GLI3-190, GLI3 full length protein, GLI3FL, Transcriptional repressor GLI3R, GLI3 C-terminally truncated form, GLI3 form of 83 kDa, GLI3-83, GLI3

**Calculated MW**

169863 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse<br>

**Subcellular Localization**

Nucleus. Cytoplasm. Cell projection, cilium. GLI3FL is localized predominantly in the cytoplasm while GLI3R resides mainly in the nucleus. Ciliary accumulation requires the presence of KIF7 and SMO. Translocation to the nucleus is promoted by interaction with ZIC1.

**Tissue Specificity**

Is expressed in a wide variety of normal adult tissues, including lung, colon, spleen, placenta, testis, and myometrium.

**Protein Name**

Transcriptional activator GLI3

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the N-terminus of human Gli3(40-57aa SNEDESPGQTYHRERRNA), different from the related rat sequence by two amino acids, and from the related mouse sequence by one amino acid.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Sequence Similarities**

Belongs to the GLI C2H2-type zinc-finger protein family.

**Anti-Gli3 Antibody - Protein Information****Name** GLI3**Function**

Has a dual function as a transcriptional activator and a repressor of the sonic hedgehog (Shh) pathway, and plays a role in limb development. The full-length GLI3 form (GLI3FL) after phosphorylation and nuclear translocation, acts as an activator (GLI3A) while GLI3R, its C-terminally truncated form, acts as a repressor. A proper balance between the GLI3 activator and the repressor GLI3R, rather than the repressor gradient itself or the activator/repressor ratio gradient, specifies limb digit number and identity. In concert with TRPS1, plays a role in regulating the size of the zone of distal chondrocytes, in restricting the zone of PTHLH expression in distal cells and in activating chondrocyte proliferation. Binds to the minimal GLI- consensus sequence 5'-GGGTGGTC-3'.

**Cellular Location**

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**Tissue Location**

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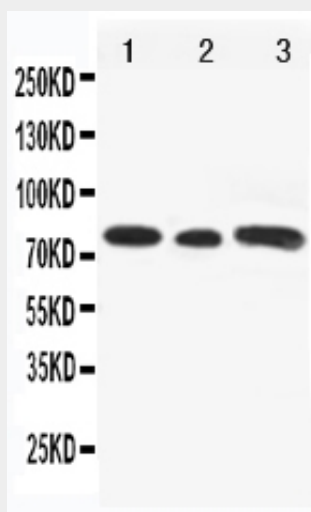
**Anti-Gli3 Antibody - Protocols**

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](#)

## Anti-Gli3 Antibody - Images



Anti-Gli3 antibody, ABO11075, Western blotting Lane 1: Rat Testis Tissue Lysate Lane 2: A549 Cell Lysate Lane 3: SW620 Cell Lysate

## Anti-Gli3 Antibody - Background

GLI3(Gli-kruppel family member 3), also called ONCOGENE GLI3, encodes a member of the zinc finger gene family related to Kruppel, a gene that is known to regulate development in *Drosophila*. The GLI3 gene is expressed as an 8.5-kb mRNA in tissues such as testis, myometrium, placenta, and lung, and the protein product(relative molecular mass, 190,000) shows sequence-specific DNA binding. The GLI3 gene is mapped on 7p14.1. GLI3 is homologous to the *Drosophila* cubitus interruptus(ci) gene product(Ci), which regulates the Patched(pct), gooseberry(gsb), and decapentaplegic(dpp) genes. PKA-dependent processing of vertebrate GLI3 in developing limb generates a potent repressor in a manner antagonized by apparent long-range signaling from posteriorly localized Sonic hedgehog protein. The high relative abundance and potency of GLI3 repressor suggested specialization of GLI3 and its products for negative hedgehog pathway regulation. Coimmunoprecipitation and immunoblot studies showed that GLI3 protein is polyubiquitinated and that its processing depends on proteasome activity. The findings suggested that BTRC is required for GLI3 processing.