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# Anti-Gli3 Rabbit Monoclonal Antibody

Catalog # ABO15401

## Product Information

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|---|---|
| **Application** | WB, IF, ICC |
| **Primary Accession** | P10071 |
| **Host** | Rabbit |
| **Isotype** | IgG |
| **Reactivity** | Human |
| **Clonality** | Monoclonal |
| **Format** | Liquid |
| **Description** | Anti-Gli3 Rabbit Monoclonal Antibody . Tested in WB, ICC/IF applications. This antibody reacts with Human. |

## Additional Information

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|---|---|
| **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 |
| **Application Details** | WB 1:500-1:2000<br>ICC/IF 1:50-1:200 |
| **Source** | Eukaryota |
| **Contents** | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA. |
| **Clone Names** | Clone: 19G77 |
| **Immunogen** | A synthesized peptide derived from human Gli3 |
| **Purification** | Affinity-chromatography |
| **Storage** | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles. |

## Protein Information

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|---|---|
| **Name** | GLI3 {ECO:0000303\|PubMed:2118997, ECO:0000312\|HGNC:HGNC:4319} |
| **Function** | Transcription factor that acts as a key effector of the smoothened signaling pathway, and which plays a role in the development and patterning of various body structures, including the brain and limbs (PubMed:10075717, |

PubMed:10375510, PubMed:10693759, PubMed:11238441, PubMed:17764085, PubMed:20154143, PubMed:27146893). Specifically binds to the minimal GLI-consensus sequence 5'-GACCACCCA- 3' to activate or repress the expression of target genes (PubMed:10075717). Functions both as a transcriptional activator and repressor: the full-length GLI3 form (Transcription activator GLI3) acts as a transcription activator following smoothened activation, while the Transcription repressor GLI3R, which is generated in absence of smoothened, acts as a transcription repressor (PubMed:10375510). The repressor form (GLI3R) constitutes the major form of GLI3 (PubMed:10375510).

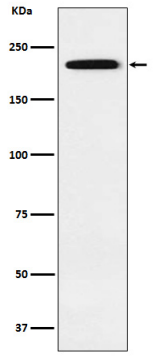
**Cellular Location**

Nucleus. Cytoplasm. Cell projection, cilium. Note=Full-length GLI3 is sequestered in the cytoplasm by SUFU in absence of smoothened signaling [Transcription activator GLI3]: Nucleus. Cytoplasm Cell projection, cilium Note=Sequestered in the cytoplasm by SUFU in absence of smoothened signaling (PubMed:38968120). Accumulates in primary cilia following smoothened activation: cilium localization requires the presence of KIF7 (PubMed:19592253, PubMed:20154143). It then translocates to the nucleus, where is activates transcription of target genes (PubMed:38968120). Translocation to the nucleus is promoted by interaction with ZIC1 (PubMed:11238441). TMEM216 reduces its nuclear localization (By similarity). {ECO:0000250|UniProtKB:Q61602, ECO:0000269|PubMed:11238441, ECO:0000269|PubMed:19592253, ECO:0000269|PubMed:20154143, ECO:0000269|PubMed:38968120}

**Tissue Location**

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

## Images




Western blot analysis of Gli3 expression in 293 cell lysate.

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