

Anti-Gli1 Picoband Antibody
Catalog # ABO11814**Specification**

Anti-Gli1 Picoband Antibody - Product Information

Application	WB, IHC
Primary Accession	P08151
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Zinc finger protein GLI1(GLI1) detection. Tested with WB, IHC-P in Human.

Reconstitution

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

Anti-Gli1 Picoband Antibody - Additional Information

Gene ID 2735

Other Names

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

Calculated MW

117904 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat

Western blot, 0.1-0.5 µg/ml, Human

Subcellular 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.

Tissue Specificity

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

Protein Name

Zinc finger protein GLI1

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen

E.coli-derived human GLI1 recombinant protein (Position: Q768-A1106). Human GLI1 shares 79%

amino acid (aa) sequence identity with mouse GLI1.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, 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-Gli1 Picoband Antibody - Protein Information

Name GLI1

Synonyms GLI

Function

Acts as a transcriptional activator (PubMed:19706761, PubMed:10806483, PubMed:19878745, PubMed:24076122, PubMed:24311597, PubMed:24217340). Binds to the DNA consensus sequence 5'-GACCACCCA-3' (PubMed:2105456, PubMed:8378770, PubMed:24217340). Regulates the transcription of specific genes during normal development (PubMed:19706761). 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:19706761, PubMed:28973407). Plays a role in cell proliferation and differentiation via its role in SHH signaling (PubMed:11238441, PubMed:28973407).

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

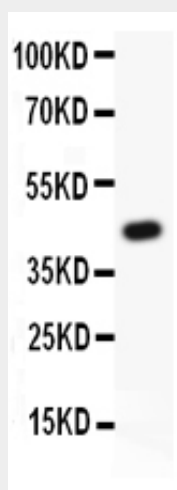
Detected in testis (at protein level) (PubMed:2105456). Testis, myometrium and fallopian tube. Also expressed in the brain with highest expression in the cerebellum, optic nerve and olfactory tract (PubMed:19878745). Isoform 1 is detected in brain, spleen, pancreas, liver, kidney and placenta; isoform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

Anti-Gli1 Picoband Antibody - Protocols

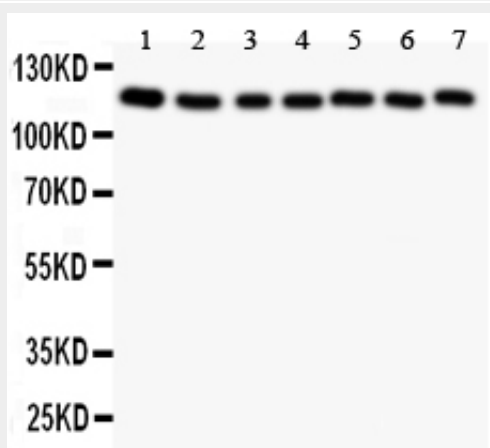
Provided below are standard protocols that you may find useful for product applications.

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

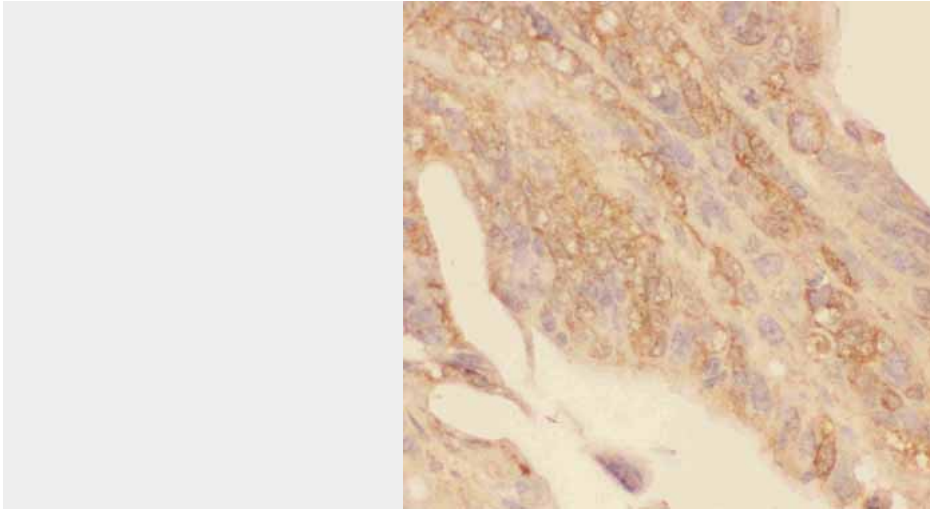
Anti-Gli1 Picoband Antibody - Images



Anti-Gli1 Picoband antibody, ABO11814-1.jpg All lanes: Anti GLI1 (ABO11814) at 0.5ug/ml WB: Recombinant Human GLI1 Protein 0.5ng Predicted bind size: 47KD Observed bind size: 47KD



Anti-Gli1 Picoband antibody, ABO11814-2.jpg All lanes: Anti GLI1 (ABO11814) at 0.5ug/ml Lane 1: U87 Whole Cell Lysate at 40ug Lane 2: MCF-7 Whole Cell Lysate at 40ug Lane 3: HELA Whole Cell Lysate at 40ug Lane 4: SKOV Whole Cell Lysate at 40ug Lane 5: HT1080 Whole Cell Lysate at 40ug Lane 6: COLO320 Whole Cell Lysate at 40ug Lane 7: HEPG2 Whole Cell Lysate at 40ug Predicted bind size: 118KD Observed bind size: 118KD



Anti-Gli1 Picoband antibody, ABO11814-3.JPGIHC(P): Human Intestinal Cancer Tissue

Anti-Gli1 Picoband Antibody - Background

GLI1, also known as GLI, is a protein originally isolated in human glioblastoma. The protein is encoded by GLI1 gene. It is mapped to 12q13.3. This gene is a member of a select group of cellular genes that are genetically altered in primary human tumors. GLI1 encodes a member of the GLI-Kruppel family of zinc finger proteins in the final steps of Hedgehog signaling in normal development and disease. 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. Beside, various upstream patterning signals may be integrated by the Gli proteins to direct a coherent programme of neurogenesis.