

GLI2 Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20619c**Specification**

GLI2 Antibody (C-term) - Product Information

Application	IHC-P-Leica, IF, FC, WB,E
Primary Accession	P10070
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	167783

GLI2 Antibody (C-term) - Additional Information**Gene ID** 2736**Other Names**

Zinc finger protein GLI2, GLI family zinc finger protein 2 {ECO:0000312|HGNC:HGNC:4318}, Tax helper protein, GLI2 (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=4318)

Target/Specificity

This GLI2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 1287-1321 amino acids from the C-terminal region of human GLI2.

Dilution

IHC-P-Leica~~1:500
IF~~1:25
FC~~1:25
WB~~1:2000
E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

GLI2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

GLI2 Antibody (C-term) - Protein Information

Name GLI2 ([HGNC:4318](#))

Function Functions as a transcription regulator in the hedgehog (Hh) pathway (PubMed:[18455992](#), PubMed:[26565916](#)). Functions as a transcriptional activator (PubMed:[19878745](#), PubMed:[24311597](#), PubMed:[9557682](#)). May also function as transcriptional repressor (By similarity). Requires STK36 for full transcriptional activator activity. Required for normal embryonic development (PubMed:[15994174](#), PubMed:[20685856](#)).

Cellular Location

Nucleus. Cytoplasm {ECO:0000250|UniProtKB:Q0VGT2}. Cell projection, cilium {ECO:0000250|UniProtKB:Q0VGT2}. Note=STK36 promotes translocation to the nucleus. In keratinocytes, it is sequestered in the cytoplasm by SUFU. In the absence of SUFU, it translocates to the nucleus {ECO:0000250|UniProtKB:Q0VGT2} [Isoform 2]: Nucleus

Tissue Location

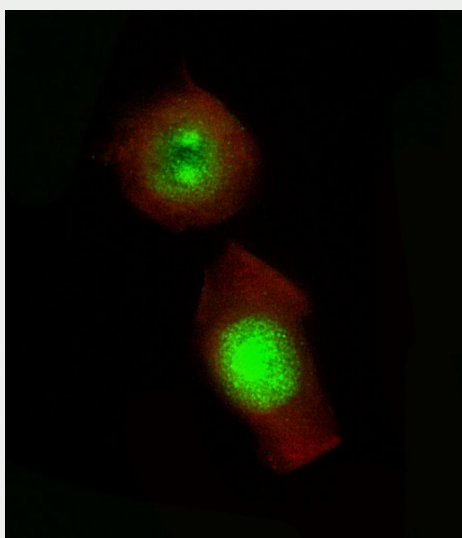
Expressed in breast cancers (at protein level) (PubMed:26565916). Isoform 1 and isoform 4 are expressed in HTLV-1- infected T-cell lines (at protein level) (PubMed:9557682). Isoform 1 and isoform 2 are strongly expressed in HTLV-1-infected T-cell lines (PubMed:9557682). Isoform 3 and isoform 4 are weakly expressed in HTLV- 1-infected T-cell lines (PubMed:9557682).

GLI2 Antibody (C-term) - Protocols

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

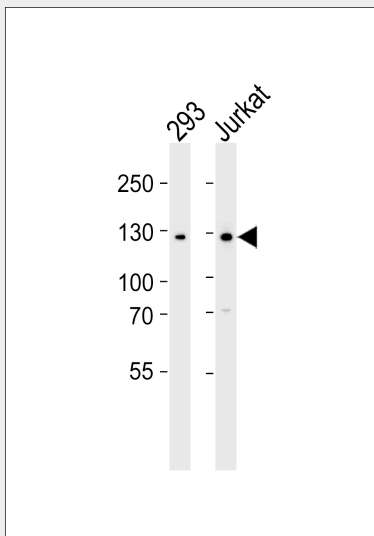
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GLI2 Antibody (C-term) - Images

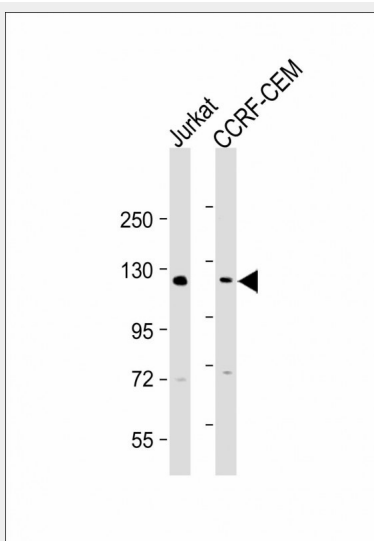


Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0. 1% Triton X-100 permeabilized PC-3 cells labeling GLI2 with AP20619c at 1/25 dilution, followed by Dylight® 488-conjugated goat

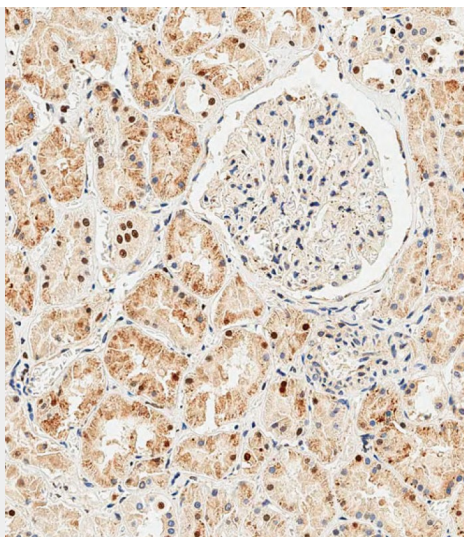
anti-Rabbit IgG secondary antibody at 1/200 dilution (green). Immunofluorescence image showing Nucleus and Weak Cytoplasm staining on PC-3 cell line. Cytoplasmic actin is detected with Dylight® 554 Phalloidin(red). The nuclear counter stain is DAPI (blue).



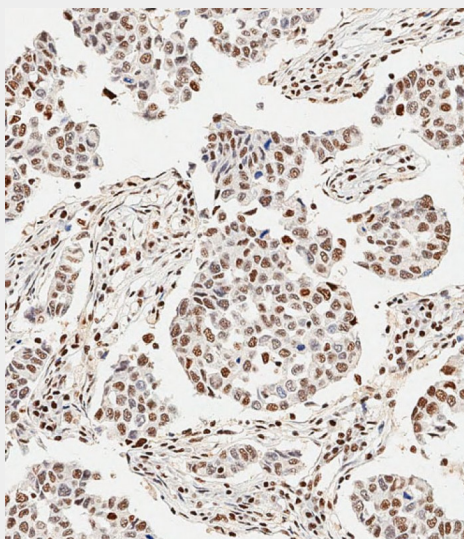
Western blot analysis of lysates from 293, Jurkat cell line (from left to right), using GLI2 Antibody (C-term)(Cat. #AP20619c). AP20619c was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.



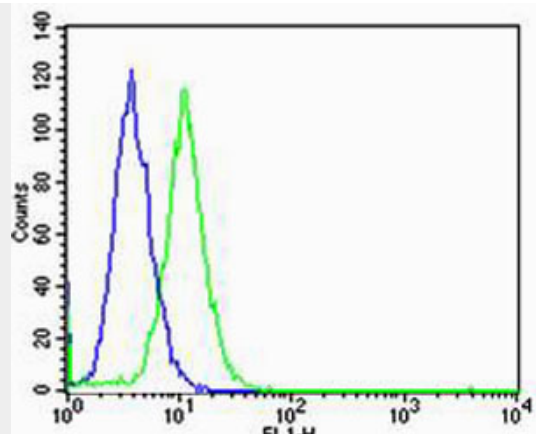
All lanes : Anti-GLI2 Antibody (C-term) at 1:2000 dilution Lane 1: Jurkat whole cell lysate Lane 2: CCRF-CEM whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 168 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Immunohistochemical analysis of paraffin-embedded Human kidney tissue using AP20619c performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Immunohistochemical analysis of paraffin-embedded Human breast carcinoma tissue using AP20619c performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Flow cytometric analysis of Hela cells using GLI2 Antibody (C-term)(green, Cat#AP20619c) compared to an isotype control of rabbit IgG(blue). AP20619c was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody.

GLI2 Antibody (C-term) - Background

Acts as a transcriptional activator. May play a role during embryogenesis. Binds to the DNA sequence 5'-GAACCACCCA-3' which is part of the TRE-2S regulatory element that augments the Tax-dependent enhancer of human T-cell leukemia virus type 1. Is involved in the smoothened (SHH) signaling pathway.

GLI2 Antibody (C-term) - References

Tanimura A.,et al.J. Virol. 72:3958-3964(1998).
Roessler E.,et al.Hum. Mol. Genet. 14:2181-2188(2005).
Hillier L.W.,et al.Nature 434:724-731(2005).
Tanimura A.,et al.J. Virol. 67:5375-5382(1993).
Ruppert J.M.,et al.Mol. Cell. Biol. 8:3104-3113(1988).