

# GLI2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP20619c

## Product Information

Application	WB, IF, FC, IHC-P-Leica, E
Primary Accession	<a href="#">P10070</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB49147
Calculated MW	167783

## 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 ( <a href="#">HGNC:4318</a> )
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	WB~~1:1000 IF~~1:25 FC~~1:25 IHC-P-Leica~~1:500 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.

## Protein Information

Name	GLI2 ( <a href="#">HGNC:4318</a> )
Function	Functions as a transcription regulator in the hedgehog (Hh) pathway (PubMed: <a href="#">18455992</a> , PubMed: <a href="#">26565916</a> ). Functions as a transcriptional activator (PubMed: <a href="#">19878745</a> , PubMed: <a href="#">24311597</a> , PubMed: <a href="#">9557682</a> ). 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).

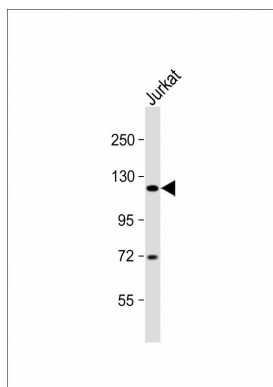
## Background

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.

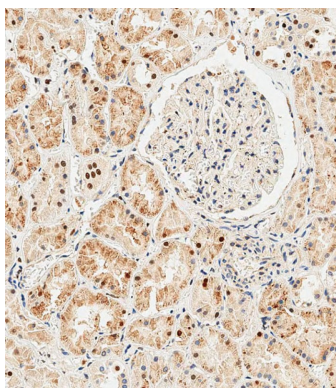
## References

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).

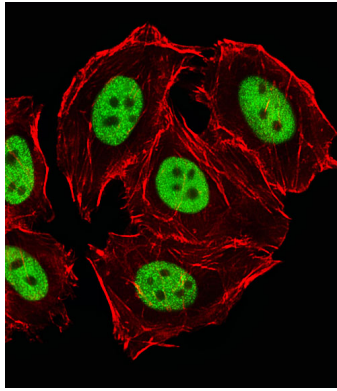
## Images



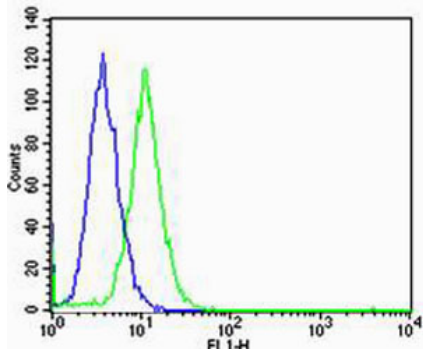
Anti-GLI2 Antibody (C-term) at 1:2000 dilution + Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 168 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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.



Fluorescent image of HeLa cells stained with GLI2 Antibody (C-term)(Cat#AP20619c). AP20619c was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).



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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.