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GLI2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20619c

Specification

GLI2 Antibody (C-term) - Product Information

Application	**IF, WB, IHC-P-Leica, FC,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 (HGNC: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
IF~~1:25
WB~~1:1000
IHC-P-Leica~~1:500
FC~~1:25

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:9557682, PubMed:19878745, PubMed:24311597). 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

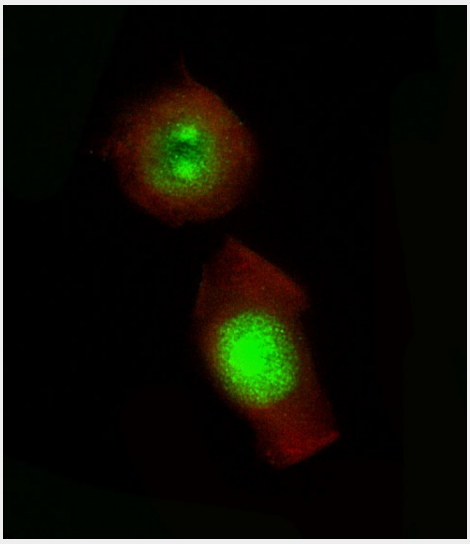
Tissue Location
Expressed in breast cancers (at protein level) (PubMed:26565916). Isoform 1 and isoform 4 are expressed in HTLV-1- infected T-cell lines (at protein level) (PubMed:9557682). Isoform 1 and isoform 2 are strongly expressed in HTLV-1-infected T-cell lines (PubMed:9557682). Isoform 3 and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

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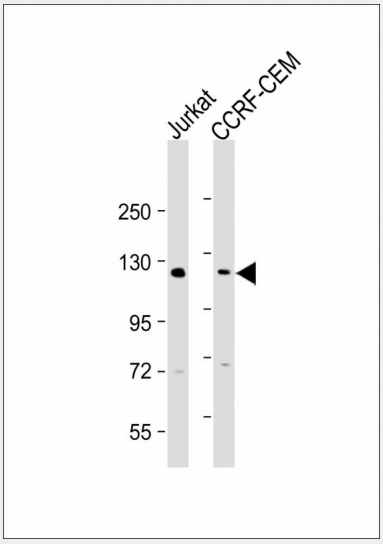
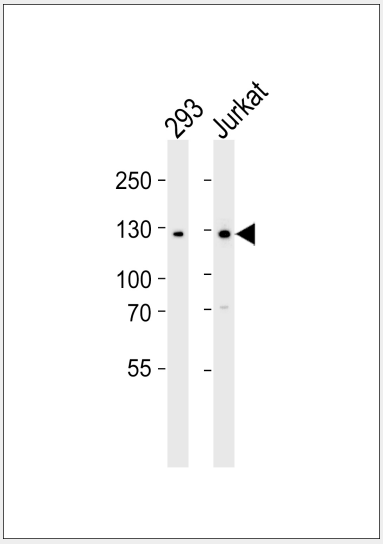
anti-Rabbit IgG secondary antibody at 1/200 dilution (green). Immunofluorescence image showing Nucleus and Weak Cytoplasm staining on PC-3 cell line. Cytoplasmic actin is detected with Dylight® 554 Phalloidin(red). The nuclear counter stain is DAPI (blue).



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.



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.

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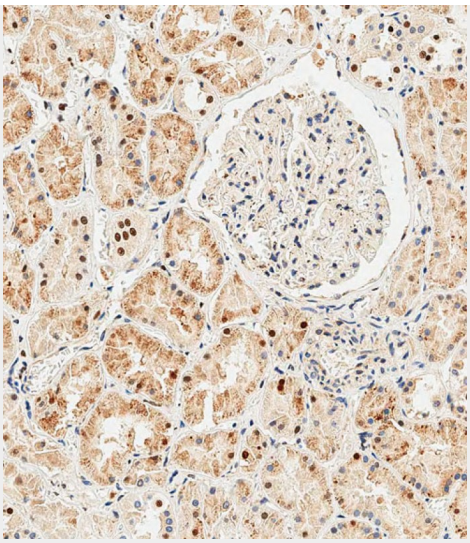
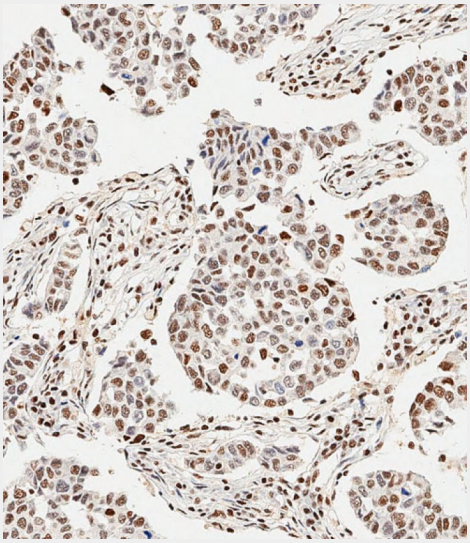


Immunohistochemical analysis of paraffin-embedded Human kidney tissue using AP20619c performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1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

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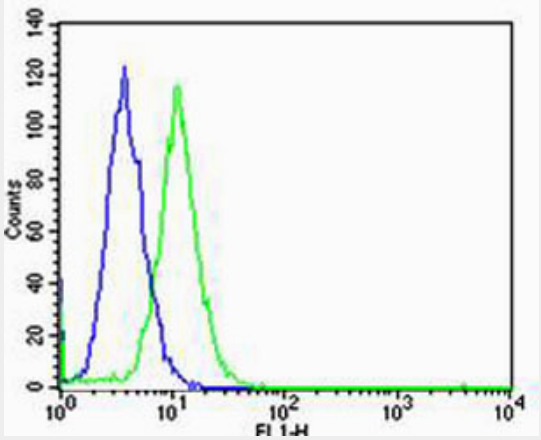

Flow cytometric analysis of Hela cells using GLI2 Antibody (C-term)(green, Cat#AP20619c) compared to an isotype control of rabbit IgG(blue). AP20619c was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-rabbit lgG at 1:400 dilution was used as the secondary antibody.

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

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Roessler E.,et al.Hum. Mol. Genet. 14:2181-2188(2005).
Hillier L.W.,et al.Nature 434:724-731(2005).
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