For Research Use Only

GLI3-Specific Polyclonal antibody

Catalog Number:19949-1-AP 12 Publications

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Basic Information

Catalog Number:
19949-1-AP

Size:
150ul , Concentration: 240 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_000168

GeneID (NCBI):
2737

Full Name:
GLI family zinc finger 3

Calculated MW:
170 kDa

Observed MW:
190 kDa, 83-86 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:200-1:1000
IP 0.5-4.0 ug for IP and 1:200-1:1000 for WB
IHC 1:20-1:200
IF 1:10-1:100

Applications

Tested Applications:
FC, IF, IHC, IP, WB, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : human placenta tissue, mouse lung tissue

IP : mouse lung tissue,

IHC : human testis tissue, human colon tissue

IF : HepG2 cells,

Background Information

GLI3 belongs to the GLI C2H2-type zinc-finger protein family. GLI3 plays a role in limb and brain development. GLI3 is implicated in the transduction of SHH signal. Defects in GLI3 are the cause of Greig cephalo-poly-syndactyly syndrome (GCPS). Defects in GLI3 are a cause of Pallister-Hall syndrome (PHS). Defects in GLI3 are a cause of type A1/B postaxial polydactyly (PAPA1/PAPB). Defects in GLI3 are a cause of type IV preaxial polydactyly. Defects in GLI3 are the cause of acrocallosal syndrome (ACS). The antibody is specific to GLI3. At the molecular level, Gli3 is translated into a 190-kDa transcriptional activator (Gli3-190) that undergoes proteolytic processing into a truncated 83-kDa repressor (Gli3-83) lacking C-terminal activation domains. (PMID: 16705181)

Notable Publications

Author	Pubmed ID	Journal	Application
Diana Trnski	26385428	Biochim Biophys Acta	WB
Yuqin Men	26549569	Sci Rep	WB
Petar Ozretić	29039491	Int J Oncol	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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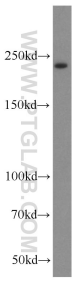
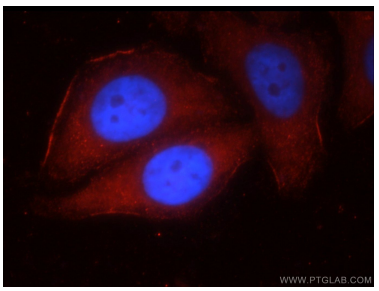
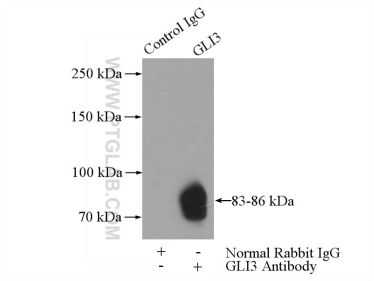
Selected Validation Data



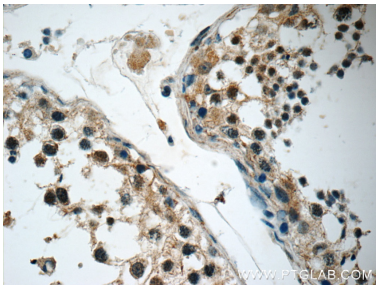
human placenta tissue were subjected to SDS PAGE followed by western blot with 19949-1-AP (GLI3-Specific antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



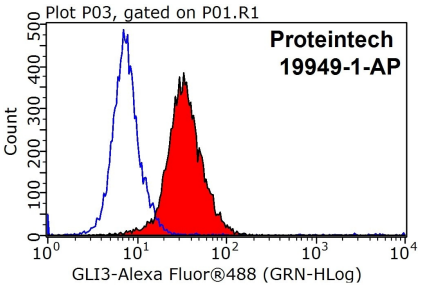
Immunofluorescent analysis of HepG2 cells using 19949-1-AP (GLI3-Specific antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.



IP Result of anti-GLI3-Specific (IP:19949-1-AP, 4ug; Detection:19949-1-AP 1:300) with mouse lung tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 19949-1-AP (GLI3-Specific Antibody) at dilution of 1:50.



1X10^6 HepG2 cells were stained with 0.2ug GLI3-Specific antibody (19949-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.