USA: proteintech@ptglab.com
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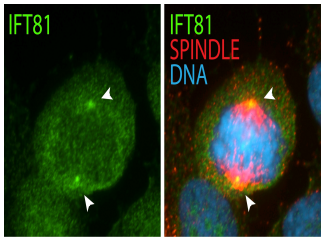
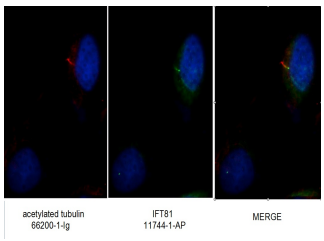
IFT81 Polyclonal Antibody

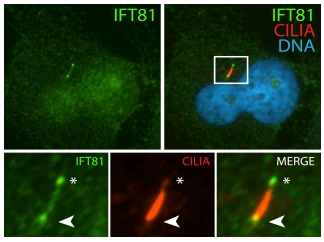
Catalog number: 11744-1-AP
Size: 20 µg/150 µl
Source: Rabbit
Isotype: IgG
Synonyms:
IFT81; CDV 1, CDV 1R, CDV1, CDV1R, IFT81



IF result (localization to the spindle poles) of anti-IFT81 (11744-1-AP, 1:50) with metaphase hTERT-RPE1 cells (MeOH fixed) byDr. Moshe Kim.



Immunofluorescent images of MDCK cells stained with IFT81 rabbit pAb (11744-1-AP) and acetylated tubulin mouse mAb (66200-1-Ig) at dilution of 1:50, further stained with Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L) for IFT81, and Rhodamine-Goat anti-rabbit IgG for 66200-1-Ig.



IF result (the base and tip of cilia) of anti-IFT81 (11744-1-AP, 1:50) with serum-starved hTERT-RPE1 (PFA fixed) by Dr. Moshe Kim.

Background

Intraflagellar transport (IFT), mediated by molecular motors and IFT particles, is an important transport process that occurs in the cilium and has been shown to be essential for the assembly and maintenance of cilia and flagella in many organisms. IFT particles are multi-subunit complexes of proteins that functions to move non-membrane-bound particles from the cell body to the tip of cilium or flagellum, then return them to the cell body. Transport towards the ciliary tip is regulated by the IFT complex B (IFT-B), consisting of at least 15 IFT proteins, in association with kinesin motors, whereas transport from the ciliary tip back to the base is executed by a dynein motor in association with the IFT complex A (IFT-A), currently known to be composed of six IFT proteins. IFT81 is a subunit of IFT complex B.It may play a role in development of the testis and spermatogenesis.

Applications

Tested applications:	**ELISA, WB, IHC, IP, IF**
Cited applications:	**IF, WB**
Species specificity:	**Human, Mouse; other species not tested.**
Cited species:	**Human, mouse**
Caculated IFT81 MW:	**676aa,80 kDa**
Observed IFT81 MW:	**75-80 kDa**
Positive WB detected in	**Human brain tissue, HEK-293 cells, mouse brain tissue, mouse testis tissue**
Positive IP detected in	**Mouse brain tissue**
Positive IHC detected in	**Human prostate cancer tissue**
Positive IF detected in	**HTERT-RPE1 cells, MDCK cells**
Recommended dilution:	**WB: 1:200-1:2000** **IP: 1:200-1:2000** **IHC: 1:20-1:200** **IF: 1:20-1:200**

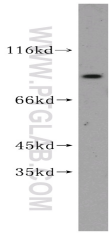
Application key: WB = Western blotting, IHC= Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

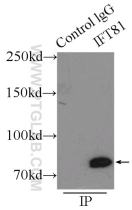
Immunogen information

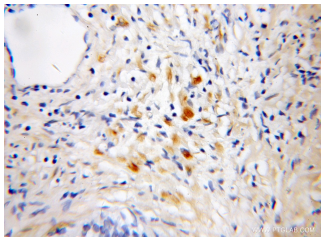
Immunogen:	**Ag2339**
GenBank accession number:	**BC029349**
Gene ID (NCBI):	**28981**
Full name:	**Intraflagellar transport 81 homolog (Chlamydomonas)**

Product information

Purification method:	**Antigen affinity purification**
Storage:	**PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.**







human brain tissue were subjected to SDS PAGE followed by western blot with 11744-1-AP(IFT81 antibody) at dilution of 1:600

IP Result of anti-IFT81 (IP:11744-1-AP, 3ug; Detection:11744-1-AP 1:500) with mouse brain tissue lysate 7500ug.

Immunohistochemical of paraffin-embedded human prostate cancer using 11744-1-AP(IFT81 antibody) at dilution of 1:50 (under 10x lens)