

IFT88

Polyclonal ANTIBODY

Catalog Number: 13967-1-AP

Featured Product

162 Publications

Basic Information

Catalog Number:
13967-1-AP

Size:
40 µg/150 µl

Source:
Rabbit

Isotype:
IgG

Purification Method:
Antigen affinity purification

Immunogen Catalog Number:
AG4980

GenBank Accession Number:
BC030776

GeneID (NCBI):
8100

Full Name:
intraflagellar transport 88 homolog
(Chlamydomonas)

Calculated MW:
94 kDa

Observed MW:
88-95 kDa

Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 µg for IP and 1:500-1:1000 for WB

IHC 1:20-1:200

IF 1:20-1:200

Applications

Tested Applications:

IF, IHC, IP, WB, ELISA

Cited Applications:

CoIP, IF, IHC, IP, WB

Species Specificity:

human, mouse, rat, dog

Cited Species:

chicken, dog, human, mouse, rat

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

Positive Controls:

WB : HEK-293 cells; A549 cells, HepG2 cells, Jurkat cells, K-562 cells, mouse brain tissue, mouse eye tissue, mouse kidney tissue, mouse testis tissue, mouse thymus tissue, NIH/3T3 cells

IP : knockout cells and WT cells; HEK-293 cells

IHC : human heart tissue; human pancreas tissue

IF : MDCK cells; hTERT-RPE1 cells

Background Information

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. IFT88 (intraflagellar transport protein 88; also known as TG737 or TTC10) is a component of IFT particles and required for cilium biogenesis. Defects in IFT88/TG737 lead to polycystic kidney disease (11062270). IFT88 localizes to spindle poles during mitosis and is required for spindle orientation in mitosis (21441926). This antibody was raised against the C-terminal region of human IFT88 and can detect the endogenous level of IFT88.

Notable Publications

Author	Pubmed ID	Journal	Application
Lei Wang	30258116	Nat Commun	WB, IF
Ivan Duran	27666822	Sci Rep	WB
Lili Hu	28931427	Alzheimers Res Ther	IF

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

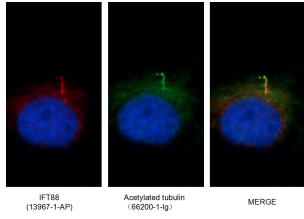
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

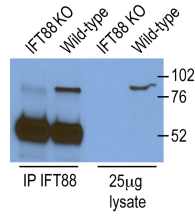
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

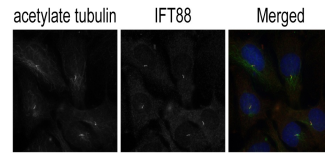
Selected Validation Data



Immunofluorescent images of MDCK cells stained with IFT88 rabbit pAb (13967-1-AP) and acetylated tubulin mouse mAb (66200-1-Ig) at dilution of 1:50, further stained with Alexa Fluor 594-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) for 13967-1-AP, and Alexa Fluor 488-conjugated AffiniPure Goat anti-Mouse IgG(H+L) for 66200-1-Ig.

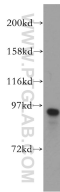


IP and WB result of IFT88(13967-1-AP) from Dr. Corbit, Kevin. Knockout cells and WT cells.

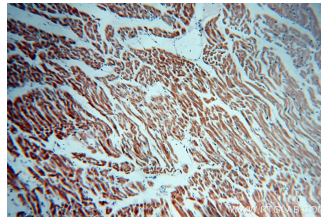


Dr. Andrew Kodani, Reiter Lab UCSF

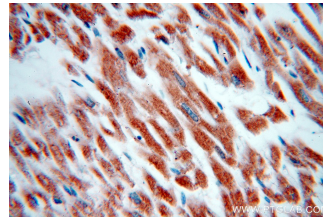
IF result of anti-IFT88(13967-1-AP) from Dr. Corbit, Kevin and Dr. Andrew Kodani.



HEK-293 cells were subjected to SDS PAGE followed by western blot with 13967-1-AP(IFT88 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours



Immunohistochemical of paraffin-embedded human heart using 13967-1-AP(IFT88 antibody) at dilution of 1:50 (under 10x lens)



Immunohistochemical of paraffin-embedded human heart using 13967-1-AP(IFT88 antibody) at dilution of 1:50 (under 40x lens)