

For Research Use Only

# IFT88 Polyclonal antibody

Catalog Number: 13967-1-AP

Featured Product

279 Publications



## Basic Information

|  |  |  |
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| <b>Catalog Number:</b><br>13967-1-AP   | <b>GenBank Accession Number:</b><br>BC030776                             | <b>Purification Method:</b><br>Antigen affinity purification                                     |
| <b>Size:</b><br>150ul , Concentration: 400 µg/ml by Nanodrop and 267 µg/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>8100  | <b>Recommended Dilutions:</b><br>WB 1:500-1:3000<br>IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB |
| <b>Source:</b><br>Rabbit   | <b>Full Name:</b><br>intraflagellar transport 88 homolog (Chlamydomonas) | <b>IHC 1:20-1:200</b><br><b>IF 1:50-1:500</b>  |
| <b>Isotype:</b><br>IgG   | <b>Calculated MW:</b><br>94 kDa  |  |
| <b>Immunogen Catalog Number:</b><br>AG4980   | <b>Observed MW:</b><br>88-95 kDa   |  |

## Applications

### Tested Applications:

IF, IHC, IP, WB, ELISA

### Cited Applications:

CoIP, IF, IHC, IP, WB

### Species Specificity:

human, mouse, rat, Canine

### Cited Species:

canine, chicken, human, mouse, pig, rat, zebrafish

**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 :** HEK-293 cells, Jurkat cells, MDCK cells, 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          |
| Ana Martin-Hurtado | 31554934  | Sci Rep    | WB,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

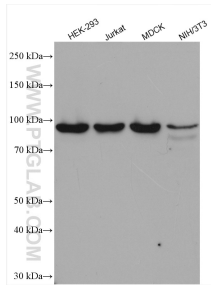
For technical support and original validation data for this product please contact:

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

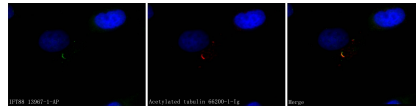
E: proteintech@ptglab.com  
W: ptglab.com

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

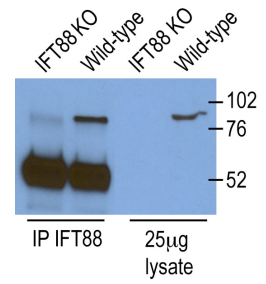
## Selected Validation Data



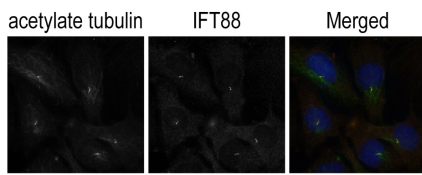
Various lysates were subjected to SDS PAGE followed by western blot with 13967-1-AP (IFT88 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed MDCK cells using 13967-1-AP (IFT88 antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

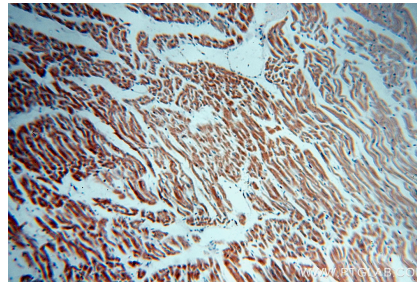


IP and WB result of IFT88 (13967-1-AP) from Dr. Corbit, Kevin. Knockout cells and WT cells.

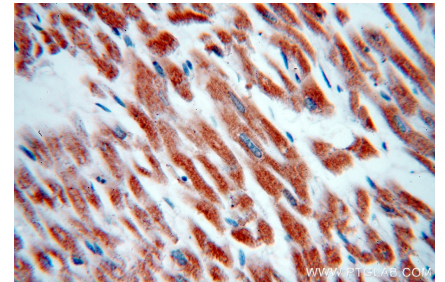


Dr. Andrew Kodani, Reiter Lab UCSF

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



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



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