For Research Use Only

IFT88 Polyclonal antibody

Catalog Number:13967-1-AP Featured Product 428 Publications

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Basic Information

Catalog Number:
13967-1-AP

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG4980

GenBank Accession Number:
BC030776

GeneID (NCBI):
8100

UNIPROT ID:
Q13099

Full Name:
intraflagellar transport 88 homolog (Chlamydomonas)

Calculated MW:
94 kDa

Observed MW:
94 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:2000-1:12000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:200-1:800
IF/ICC: 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IHC, IF, IP, CoIP

Species Specificity:
human, mouse, rat, canine

Cited Species:
human, mouse, rat, pig, canine, chicken, 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, NIH/3T3 cell, MDCK cells, mouse thymus tissue

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

IHC : mouse heart tissue, human pancreas tissue, rat heart tissue

IF/ICC : hTERT-RPE1 cells, MDCK cells, C2C12 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

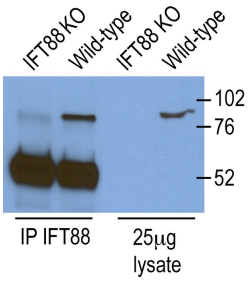
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

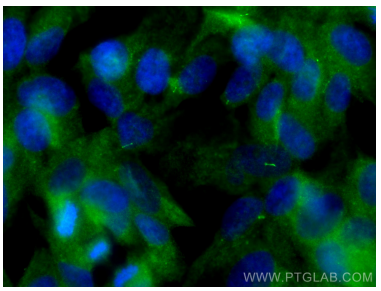
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

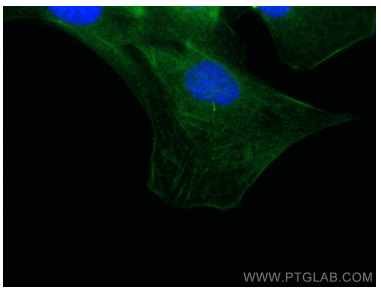
Selected Validation Data



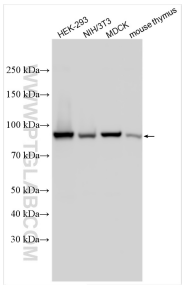
IP and WB result of IFT88 (13967-1-AP) from Dr. Corbit, Kevin. Knockout cells and WT cells.



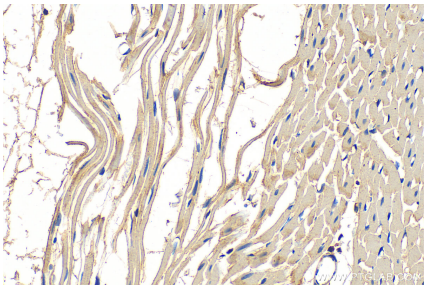
Immunofluorescent analysis of (4% PFA) fixed hTERT-RPE1 cells using IFT88 antibody (13967-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



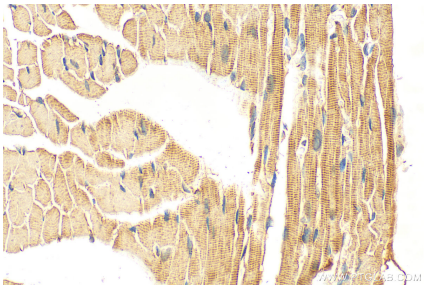
Immunofluorescent analysis of (4% PFA) fixed C2C12 cells using IFT88 antibody (13967-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



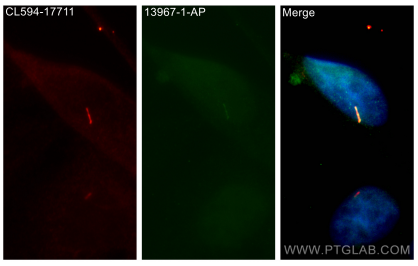
Various lysates were subjected to SDS PAGE followed by western blot with 13967-1-AP (IFT88 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



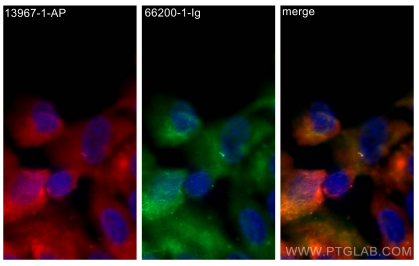
Immunohistochemical analysis of paraffin-embedded rat heart tissue slide using 13967-1-AP (IFT88 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 13967-1-AP (IFT88 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed MDCK cells using IFT88 antibody (13967-1-AP) at dilution of 1:400 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).



Immunofluorescent analysis of (4% PFA) fixed hTERT-RPE1 cells using IFT88 antibody (13967-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).