

For Research Use Only

# IFT81 Monoclonal antibody

Catalog Number: 67987-1-Ig



## Basic Information

<b>Catalog Number:</b> 67987-1-Ig	<b>GenBank Accession Number:</b> BC029349	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 28981	<b>CloneNo.:</b> 1D5A3
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q8WYAO	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IF/ICC 1:1000-1:4000
<b>Isotype:</b> IgG1	<b>Full Name:</b> intraflagellar transport 81 homolog (Chlamydomonas)	
<b>Immunogen Catalog Number:</b> AG31629	<b>Calculated MW:</b> 676 aa, 80 kDa	
	<b>Observed MW:</b> 70-80 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> Human, Rat, Mouse, Rabbit, canine	<b>WB :</b> HEK-293 cells, rabbit brain tissue, NCCIT cells, hTERT-RPE1 cells, MDCK cells, Human testis tissue, Rat testis tissue, Mouse testis tissue
	<b>IF/ICC :</b> 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. 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. There are some isoforms of IFT81 with 73-78 kDa and 43-50 kDa.

## Storage

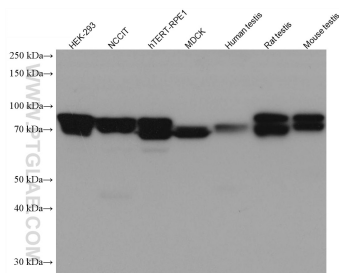
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

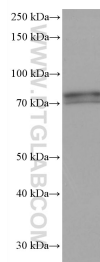
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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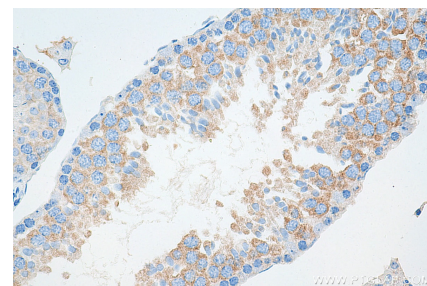
## Selected Validation Data



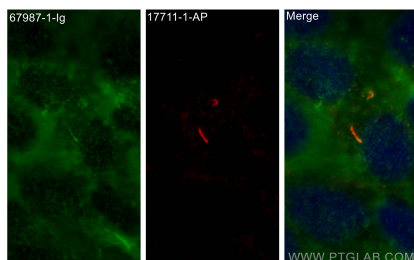
Various lysates were subjected to SDS PAGE followed by western blot with 67987-1-Ig (IFT81 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



rabbit brain tissue were subjected to SDS PAGE followed by western blot with 67987-1-Ig (IFT81 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 67987-1-Ig (IFT81 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed hTERT-RPE1 cells using IFT81 antibody (67987-1-Ig, Clone: 1D5A3) at dilution of 1:2000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), ARL13B antibody (17711-1-AP, red).