

For Research Use Only

# CFAP47 Polyclonal antibody

Catalog Number:30579-1-AP



## Basic Information

<b>Catalog Number:</b> 30579-1-AP	<b>GenBank Accession Number:</b> BC101700	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 900 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 286464	<b>Recommended Dilutions:</b> WB: 1:1000-1:4000 IHC: 1:50-1:500 IF/ICC: 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q6ZTR5	
<b>Isotype:</b> IgG	<b>Full Name:</b> chromosome X open reading frame 59	
<b>Immunogen Catalog Number:</b> AG31679	<b>Observed MW:</b> 100-110 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse	<b>WB :</b> MRC-5 cells, human testis tissue, mouse spermatophore tissue
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IHC :</b> mouse testis tissue, mouse kidney tissue
	<b>IF/ICC :</b> hTERT-RPE1 cells,

## Background Information

CFAP47 (Cilia- and flagella-associated protein 47), formerly known as CXorf22, CXorf59, is located on the human chromosome X and highly expressed in the testis and encodes a cilia- and flagella-associated protein. CFAP47 was expressed in primary cilia of human kidney tubules, and knockout (KO) mice exhibited vacuolation of tubular cells and tubular dilation, providing evidence that CFAP47 is a causative gene involved in cyst formation (PMID: 33472045, 38633811). CFAP47-mutated male mice are sterile, with decreased sperm motility and abnormal flagella morphology (PMID: 37424856).

## Storage

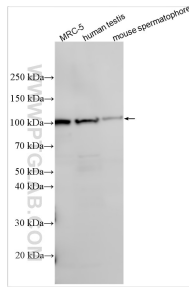
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

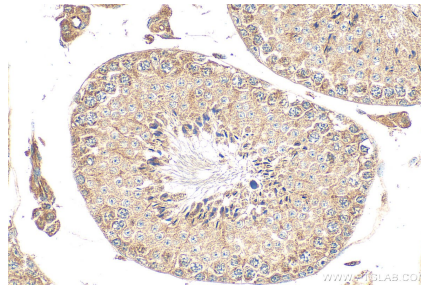
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

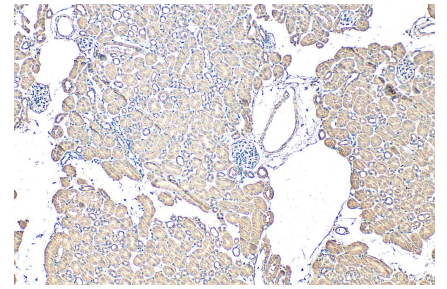
## Selected Validation Data



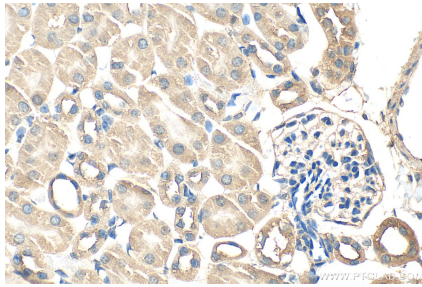
Various lysates were subjected to SDS PAGE followed by western blot with 30579-1-AP (CFAP47 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



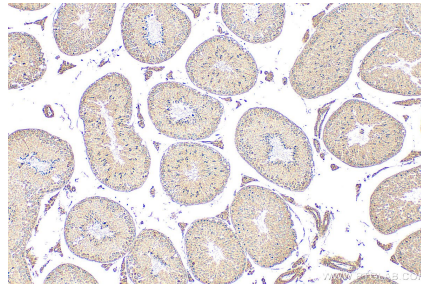
Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 30579-1-AP (CFAP47 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 30579-1-AP (CFAP47 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 30579-1-AP (CFAP47 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 30579-1-AP (CFAP47 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed hTERT-RPE1 cells using CFAP47 antibody (30579-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).