

For Research Use Only

# TMEM231 Polyclonal antibody

Catalog Number: 23731-1-AP



## Basic Information

<b>Catalog Number:</b> 23731-1-AP	<b>GenBank Accession Number:</b> BC010609	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 200 µg/ml	<b>GeneID (NCBI):</b> 79583	<b>Recommended Dilutions:</b> IHC 1:20-1:200 IF 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9H6L2	
<b>Isotype:</b> IgG	<b>Full Name:</b> hypothetical protein FLJ22167	
<b>Immunogen Catalog Number:</b> AG20669	<b>Calculated MW:</b> 345 aa, 39 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, IHC, ELISA	<b>Positive Controls:</b> IHC : human pancreas tissue, IF : MDCK cells,
<b>Species Specificity:</b> human, canine	

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

## Background Information

Transmembrane protein 231 (TMEM231) encodes a 36 kDa two-pass transmembrane protein that is part of the B9 complex and localizes to the base of the ciliary axoneme at the TZ. TMEM231 was first identified as a causative gene for MKS and participates in the formation of the diffusion barrier between the cilia and plasma membrane (PMID: 34912761, 37736303). Tmem231 mutant mice have developmental defects reminiscent of MKS patients, including corticomedullary kidney cysts, polydactyly and hepatic ductal plate malformation (PMID: 25869670).

## 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:

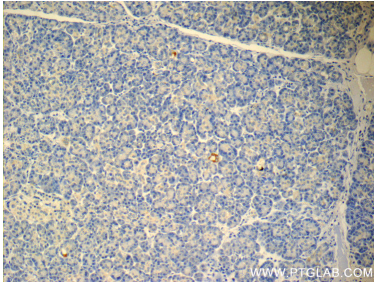
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

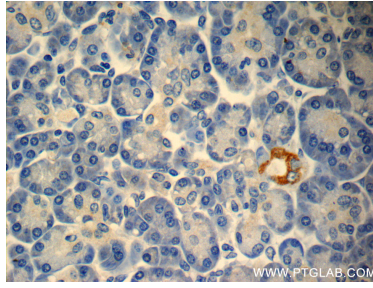
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human pancreas slide using 23731-1-AP (TMEM231 Antibody) at dilution of 1:50. (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human pancreas slide using 23731-1-AP (TMEM231 Antibody) at dilution of 1:50. (under 40x lens).



Immunofluorescent analysis of (4% PFA) fixed MDCK cells using TMEM231 antibody (23731-1-AP) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).