

For Research Use Only

# GPR177 Polyclonal antibody

Catalog Number: 17950-1-AP

Featured Product

7 Publications



## Basic Information

<b>Catalog Number:</b> 17950-1-AP	<b>GenBank Accession Number:</b> BC110826	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 650 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 79971	<b>Recommended Dilutions:</b> WB 1:1000-1:5000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> G protein-coupled receptor 177	<b>IHC 1:50-1:500</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 541 aa, 62 kDa	
<b>Immunogen Catalog Number:</b> AG12428	<b>Observed MW:</b> 46-65 kDa	

## Applications

### Tested Applications:

IHC, IP, WB, ELISA

### Cited Applications:

IHC, WB

### Species Specificity:

human, mouse, rat

### Cited Species:

goat, human, mouse, rat

**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:** U-87 MG cells, mouse brain tissue, HEK-293 cells, rat brain tissue

**IP:** mouse liver tissue,

**IHC:** human ovary tissue, mouse liver tissue, human kidney tissue

## Background Information

GPR177, also known as Wntless (WLS) or Evi, is an evolutionarily conserved transmembrane protein necessary for Wnt protein secretion. GPR177 localizes to compartments of the secretory pathway, including the ER, Golgi apparatus, endosomes, and plasma membrane. GPR177 is overexpressed in several cancer types including glioma and gastric cancer. Several isoforms of GPR177 exist due to the alternative splicing, with predicted MW around 62 and 51 kDa, respectively. The sequence can be processed by removing the signal peptide, which generates a mature form of 45-46 kDa. In addition, slow migrating band above 62 kDa can also be detected because GPR177 is modified by N-linked glycosylation (PMID: 20549736).

## Notable Publications

Author	Pubmed ID	Journal	Application
Qun Niu	34542891	Reprod Sci	IHC
Shuyu Hu	33983548	Int Ophthalmol	WB
Yue Gao	33569011	Front Physiol	WB

## 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

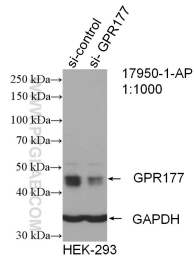
For technical support and original validation data for this product please contact:

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

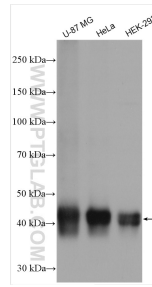
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

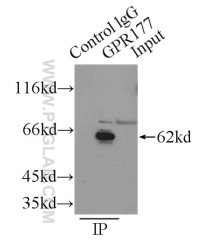
## Selected Validation Data



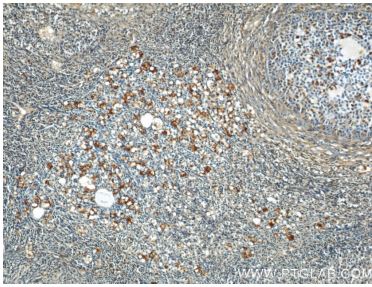
WB result of GPR177 antibody (17950-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-GPR177 transfected HEK-293 cells.



Various cell lysates were subjected to SDS PAGE followed by western blot with 17950-1-AP (GPR177 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



IP Result of anti-GPR177 (IP:17950-1-AP, 3ug; Detection:17950-1-AP 1:500) with mouse liver tissue lysate 12500ug.



Immunohistochemical analysis of paraffin-embedded human ovary using 17950-1-AP (GPR177 antibody) at dilution of 1:50 (under 10x lens).