For Research Use Only

GPR177 Polyclonal antibody

Catalog Number:17950-1-AP Featured Product 12 Publications

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Basic Information

Catalog Number:
17950-1-AP

Size:
150ul , Concentration: 650 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG12428

GenBank Accession Number:
BC110826

GeneID (NCBI):
79971

UNIPROT ID:
Q5T9L3

Full Name:
G protein-coupled receptor 177

Calculated MW:
541 aa, 62 kDa

Observed MW:
45-60 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:1000-1:8000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

Applications

Tested Applications:
WB, IP, ELISA

Cited Applications:
WB, IHC, IP, CoIP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, goat

Positive Controls:

WB : HEK-293 cells, mouse brain tissue, rat brain tissue, HeLa cells, U-251 cells, U-87 MG cells

IP : mouse liver 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 migragrating 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

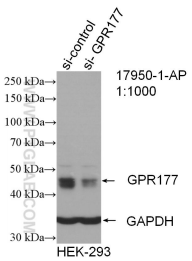
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1%BSA

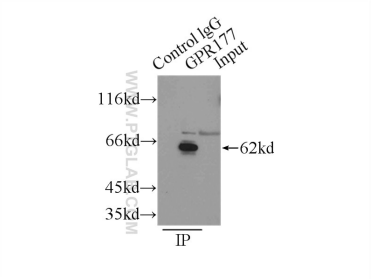
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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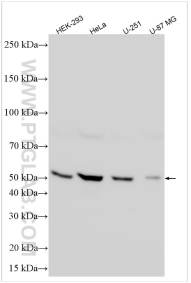
Selected Validation Data



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.



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



Various lysates were subjected to SDS PAGE followed by western blot with 17950-1-AP (GPR177 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.