

For Research Use Only

GPR161 Polyclonal antibody

Catalog Number: 29328-1-AP



Basic Information

Catalog Number:

29328-1-AP

Size:

150ul , Concentration: 400 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG30998

GenBank Accession Number:

BC028163

GeneID (NCBI):

23432

UNIPROT ID:

Q8N6U8

Full Name:

G protein-coupled receptor 161

Calculated MW:

529 aa, 59 kDa

Observed MW:

70 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, ELISA

Species Specificity:

Human, mouse, rat

Positive Controls:

WB : mouse brain tissue, rat brain tissue

IF/ICC : ARPE-19 cells, hTERT-RPE1 cells

Background Information

GPR161 (also known as RE2) is an orphan G protein-coupled receptor and plays an important role in the Hh pathway. In the absence of Hh signals, GPR161 localizes to primary cilia and keeps the downstream GLI transcription factors in their repressor forms (PMID: 26305592). Ciliary localization of GPR161 requires TULP3 and the IFT-A complex. In the presence of SHH, GPR161 is removed from primary cilia and is internalized into recycling endosomes, preventing its activity and allowing activation of the Shh signaling. GPR161 has a calculated molecular mass of 59 kDa. The 70-kDa band detected by this antibody probably represents a modified version of GPR161 (PMID: 18250320).

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

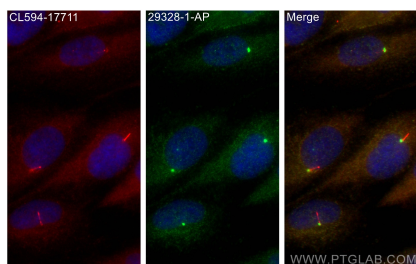
For technical support and original validation data for this product please contact:

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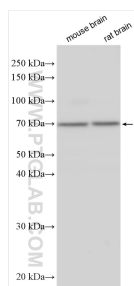
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



Immunofluorescent analysis of (-20°C Methanol) fixed ARPE-19 cells using GPR161 antibody (29328-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CoraLite®594 ARL13B antibody (CL594-17711, red).



Various lysates were subjected to SDS PAGE followed by western blot with 29328-1-AP (GPR161 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.