

GPR161 Polyclonal antibody

Catalog Number: 29328-1-AP

Basic Information

Catalog Number: 29328-1-AP	GenBank Accession Number: BC028163	Purification Method: Antigen affinity purification
Size: 400 µg/ml	GeneID (NCBI): 23432	Recommended Dilutions: WB 1:500-1:2000 IF/ICC 1:200-1:800
Source: Rabbit	UNIPROT ID: Q8N6U8	
Isotype: IgG	Full Name: G protein-coupled receptor 161	
Immunogen Catalog Number: AG30998	Calculated MW: 529 aa, 59 kDa	
	Observed MW: 70 kDa	

Applications

Tested Applications: IF/ICC, WB, ELISA	Positive Controls:
Species Specificity: Human, mouse, rat	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

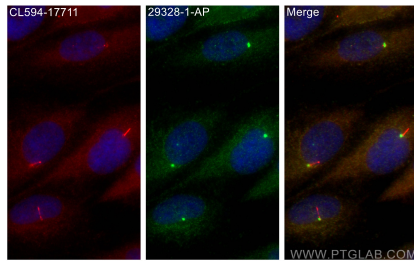
For technical support and original validation data for this product please contact:

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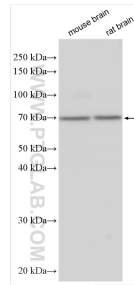
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Selected Validation Data



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 AffiniPure 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.