GPR161 polyclonal antibody

Catalog: BS33282 Host: Rabbit Reactivity: Human, Mouse

BackGround:

G protein-coupled receptor that acts as a key inhibitor of the smoothened signaling pathway in primary cilia . Inhibits the smoothened signaling pathway in absence of hedgehog (DHH, IHH or SHH) by promoting formation of the transcription repressor form of GLI2 and GLI3 transcription factors . GPR161 activation triggers signaling via guanine nucleotide-binding protein G(s)/GNAS, mediating activation of adenylate cyclase activity and production of cAMP . Increased cAMP levels activate PKA, promoting PKA-dependent processing of GLI2 and GLI3 transcription factors, leading to formation of transcription repressor GLI2R and GLI3R, which repress expression of target genes . GPR161 also activates PKA by acting as a PKA-anchoring protein, which directly associates with type I PKA regulatory subunits (PRKAR1A and/or PRKAR1B), recruiting PKA followed by PKA-dependent processing of GLI2 and GLI3...

Product:

1mg/ml in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~58.6 kDa

Swiss-Prot:

Q8N6U8

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of GPR161 protein

DATA:

Western blot analysis of Apolipoprotein B expression in HepG2 (A), HL60 (B), mouse liver (C), rat kidney (D) whole cell lysates. Immunofluorescent analysis of Apolipoprotein B staining in C6 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 ℃ in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

Note:

For research use only, not for use in diagnostic procedure.

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