

Anti-GPR179 Antibody

Catalog # AP51954

Product Information

Application	WB
Primary Accession	Q6PRD1
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	257363

Additional Information

Gene ID	440435
Other Names	GPR158L; GPR158L1; Probable G-protein coupled receptor 179; Probable G-protein coupled receptor 158-like 1; GPR158-like
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human GPR179. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	GPR179 {ECO:0000303 PubMed:24084093, ECO:0000312 HGNC:HGNC:31371}
Function	Orphan receptor involved in vision (PubMed: 22325362 , PubMed: 24084093). Required for signal transduction through retinal depolarizing bipolar cells (PubMed: 22325362). Acts as an atypical G protein-coupled receptor that recruits and regulates the R7 group RGS- GNB5 complexes instead of activating G proteins: promotes the GTPase activator activity of R7 RGS proteins, increasing the GTPase activity of G protein alpha subunits, thereby driving them into their inactive GDP-bound form (By similarity). Associates with components of metabotropic signaling cascade in retina ON-bipolar neurons, such as TRPM1 and GRM6: may control the ability of the GRM6 cascade to gate TRPM1 (By similarity).
Cellular Location	Cell membrane {ECO:0000250 UniProtKB:E9PY61}; Multi-pass membrane protein. Postsynaptic cell membrane {ECO:0000250 UniProtKB:E9PY61}; Multi-pass membrane protein. Cell projection, dendrite Note=Specifically

localizes to the tips of retinal ON-bipolar dendrites.

Tissue Location

Expressed in the retina.

References

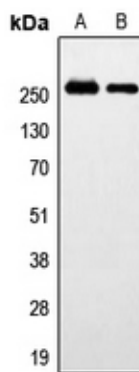
Bonner T.I.,et al.Submitted (MAR-2004) to the EMBL/GenBank/DDBJ databases.

Zody M.C.,et al.Nature 440:1045-1049(2006).

Audo I.,et al.Am. J. Hum. Genet. 90:321-330(2012).

Peachey N.S.,et al.Am. J. Hum. Genet. 90:331-339(2012).

Images



Western blot analysis of GPR179 expression in HeLa (A), SP2/0 (B) whole cell lysates. (Predicted band size: 257 kD; Observed band size: 257 kD)

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