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(DANRE) gpr126 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21136a

Product Information

Application	WB, E
Primary Accession	C6KFA3
Reactivity	Zebrafish
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB46514
Calculated MW	130813

Additional Information

Gene ID	561970
Other Names	G-protein coupled receptor 126, gpr126
Target/Specificity	This DANRE gpr126 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 1135-1169 amino acids from the C-terminal region of DANRE gpr126.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	(DANRE) gpr126 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	adgrg6
Synonyms	gpr126 {ECO:0000303|PubMed:19745155}
Function	Adhesion G-protein coupled receptor (aGPCR) for steroid hormones, such as progesterone and 17alpha-hydroxyprogesterone (17OHP) (By similarity). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity

	of downstream effectors, such as adenylate cyclase (By similarity). Adgrg6 is coupled to G(i) G alpha proteins and mediates inhibition of adenylate cyclase (PubMed:25118328). Also able to couple to G(q) G proteins (PubMed:25118328). Involved in myelination of the peripheral nervous system: required for differentiation of promyelinating Schwann cells and for normal myelination of axons (PubMed:19745155, PubMed:23804499, PubMed:25118328, PubMed:25695270, PubMed:31924782). G-protein coupled receptor activity can also be activated by type IV collagen, a major constituent of the basement membrane (PubMed:25118328). Also plays a role inner ear development (PubMed:24067352).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Expressed in Schwann cells of the posterior lateral line nerve and in brain.

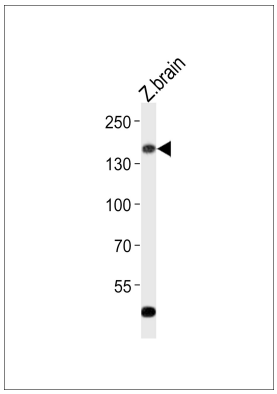
Background

Orphan receptor. Required for normal differentiation of promyelinating Schwann cells and for normal myelination of axons. Signals probably through G-proteins to transiently elevate cAMP levels. Required for normal expression of the transcription factors oct6 and krox20 that are required for Schwann cells to inititate myelination.

References

Monk K.R.,et al.Science 325:1402-1405(2009).

Images



Western blot analysis of lysate from zebra fish brain tissue lysate, using (DANRE) gpr126 Antibody (C-term)(Cat. #AP21136a). AP21136a was diluted at 1:500. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.