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Anti-GPR37L1 Antibody

Catalog # AP60800

Product Information

Application	WB, IF/IC
Primary Accession	O60883
Reactivity	Human, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	52771

Additional Information

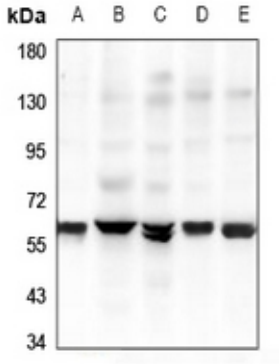
Gene ID	9283
Other Names	ETBRLP2; Prosaposin receptor GPR37L1; Endothelin B receptor-like protein 2; ETBR-LP-2; G-protein coupled receptor 37-like 1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human GPR37L1. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IF/IC~~N/A
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	GPR37L1
Synonyms	ETBRLP2
Function	G protein-coupled receptor (PubMed: 27072655). Has been shown to bind the neuroprotective and glioprotective factor prosaposin (PSAP), leading to endocytosis followed by an ERK phosphorylation cascade (PubMed:23690594). However, other studies have shown that prosaposin does not increase activity (PubMed:27072655, PubMed:28688853). It has been suggested that GPR37L1 is a constitutively active receptor which signals through the guanine nucleotide-binding protein G(s) subunit alpha (PubMed:27072655). Participates in the regulation of postnatal cerebellar development by modulating the Shh pathway (By similarity). Regulates baseline blood pressure in females and protects against cardiovascular stress in males (By similarity). Mediates inhibition of astrocyte glutamate transporters and reduction in neuronal N-methyl-D-aspartate receptor activity (By similarity).

Cellular Location	Cell membrane; Multi-pass membrane protein. Cell projection, cilium membrane {ECO:0000250|UniProtKB:Q99JG2}; Multi-pass membrane protein. Note=Associates with the basal membrane of Bergmann glia cell primary cilia. {ECO:0000250|UniProtKB:Q99JG2}
Tissue Location	Expressed in primary cortical astrocytes (at protein level) (PubMed:23690594). Expressed in the central nervous system (PubMed:9539149).

Images



Western blot analysis of GPR37L1 expression in SKOVCAR3 (A), HEK293T (B), A549 (C), LO2 (D), EC9706 (E) whole cell lysates. (Predicted band size: 52 kD; Observed band size: 60 kD)



Immunofluorescent analysis of GPR37L1 staining in LOVO 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 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.