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GPR172A Polyclonal Antibody

Catalog # AP70178

Product Information

Application	WB, IF, ICC, E
Primary Accession	Q9HAB3
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	45777

Additional Information

Gene ID	79581
Other Names	SLC52A2; GPR172A; PAR1; RFT3; Solute carrier family 52; riboflavin transporter, member 2; Porcine endogenous retrovirus A receptor 1; PERV-A receptor 1; Protein GPR172A; Riboflavin transporter 3; hRFT3
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications. IF~~1:50~200 ICC~~N/A E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

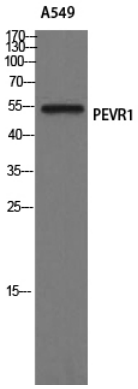
Protein Information

Name	SLC52A2
Synonyms	GPR172A, PAR1, RFT3
Function	Plasma membrane transporter mediating the uptake by cells of the water soluble vitamin B2/riboflavin that plays a key role in biochemical oxidation-reduction reactions of the carbohydrate, lipid, and amino acid metabolism (PubMed:20463145, PubMed:22864630, PubMed:23243084, PubMed:24253200, PubMed:27702554). Humans are unable to synthesize vitamin B2/riboflavin and must obtain it via intestinal absorption (PubMed:20463145). May also act as a receptor for 4- hydroxybutyrate (Probable).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Highly expressed in brain, fetal brain and salivary gland. Weakly expressed in other tissues.

Background

Riboflavin transporter. Riboflavin transport is Na(+)- independent but moderately pH-sensitive. Activity is strongly inhibited by riboflavin analogs, such as lumiflavin. Weakly inhibited by flavin adenine dinucleotide (FAD) and flavin mononucleotide (FMN). In case of infection by retroviruses, acts as a cell receptor to retroviral envelopes similar to the porcine endogenous retrovirus (PERV-A).

Images



Western Blot analysis of A549 cells using GPR172A Polyclonal Antibody

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