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Anti-GPR172B Antibody

Catalog # AP60634

Product Information

Application	WB, IF/IC
Primary Accession	Q9NWF4
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46317

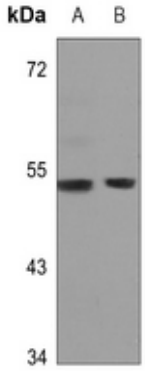
Additional Information

Gene ID	55065
Other Names	GPR172B; PAR2; RFT1; Solute carrier family 52, riboflavin transporter, member 1; Porcine endogenous retrovirus A receptor 2; PERV-A receptor 2; Protein GPR172B; Riboflavin transporter 1; hRFT1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human GPR172B. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IF/IC (1/100 - 1/500) 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	SLC52A1 (HGNC:30225)
Synonyms	GPR172B, PAR2, RFT1
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:18632736, PubMed:20463145). Humans are unable to synthesize vitamin B2/riboflavin and must obtain it via intestinal absorption (PubMed:20463145).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Widely expressed. Highly expressed in the testis, placenta and small intestine. Expressed at lower level in other tissues.

Images



Western blot analysis of GPR172B expression in mouse muscle (A), rat kidney (B) whole cell lysates. (Predicted band size: 46 kD; Observed band size: 46 kD)



Immunofluorescent analysis of GPR172B staining in HEK293T 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 DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

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