GPR172A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GPR172A, Polyclonal Antibody
Full Product Name	GPR172A Conjugated Antibody
Product Gene Name	anti-GPR172A antibody
Product Synonym Names	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
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	Recognizes endogenous levels of GPR172A protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	45,777 Da
Chromosome Location	Chromosome: 8; NC_000008.10 (145582217..145584946). Location: 8q24.3
OMIM	607882
3D Structure	ModBase 3D Structure for Q9HAB3
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human GPR172A.
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-GPR172A antibody	Most Applications
Application Notes for anti-GPR172A antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-GPR172A antibody	MBS9455698 is an antibody targeting GPR172A. Also known as GPR172A Conjugated Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-GPR172A antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GPR172A. It may not necessarily be applicable to this product.

NCBI GI #	359465547
NCBI GeneID	79581
NCBI Accession #	NP_001240744.1
UniProt Primary Accession #	Q9HAB3
UniProt Secondary Accession #	Q86UT1; A8K6B6; D3DWL8; G1UCY1
UniProt Related Accession #	Q9HAB3
GenBank Nucleotide #	NM_001253815.1
NCBI Official Full Name	solute carrier family 52, riboflavin transporter, member 2
NCBI Official Synonym Full Names	solute carrier family 52, riboflavin transporter, member 2
NCBI Official Symbol	SLC52A2
NCBI Official Synonym Symbols	PAR1; RFT3; RFVT2; hRFT3; BVVLS2; GPCR41; GPR172A; D15Ertd747e
UniProt Protein Name	Solute carrier family 52, riboflavin transporter, member 2
UniProt Synonym Protein Names	Porcine endogenous retrovirus A receptor 1; PERV-A receptor 1; Protein GPR172A; Riboflavin transporter 3
UniProt Gene Name	SLC52A2
UniProt Synonym Gene Names	GPR172A; PAR1; RFT3; PERV-A receptor 1; hRFT3
UniProt Entry Name	S52A2_HUMAN
NCBI Protein Information	solute carrier family 52, riboflavin transporter, member 2; PERV-A receptor 1; riboflavin transporter 3; G protein-coupled receptor 172A; porcine endogenous retrovirus A receptor 1; putative G-protein coupled receptor GPCR41
NCBI Summary for GPR172A	This gene encodes a membrane protein which belongs to the riboflavin transporter family. In humans, riboflavin must be obtained by intestinal absorption because it cannot be synthesized by the body. The water-soluble vitamin riboflavin is processed to the coenzymes flavin mononucleotide (FMN) and flavin adenine dinucleotide (FAD) which then act as intermediaries in many cellular metabolic reactions. Paralogous members of the riboflavin transporter gene family are located on chromosomes 17 and 20. Unlike other members of this family, this gene has higher expression in brain tissue than small intestine. Alternative splicing of this gene results in multiple transcript variants encoding the same protein. Mutations in this gene have been associated with Brown-Vialetto-Van Laere syndrome 2 - an autosomal recessive progressive neurologic disorder characterized by deafness, bulbar dysfunction, and axial and limb hypotonia. [provided by RefSeq, Jul 2012]
UniProt Comments for GPR172A	GPR172A: 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). Defects in SLC52A2 are the cause of Brown-Vialetto-Van Laere syndrome type 2 (BVVLS2). An autosomal recessive progressive neurologic disorder characterized by early childhood onset of sensorineural deafness, bulbar dysfunction, and severe diffuse muscle weakness and wasting resulting in respiratory insufficiency and loss of independent ambulation. Because it results from a defect in riboflavin metabolism, some patients may benefit from high-dose riboflavin supplementation. Belongs to the riboflavin transporter family. Protein type: Membrane protein, multi-pass; Membrane protein, integral; Receptor, GPCR Chromosomal Location of Human Ortholog: 8q24.3 Cellular Component: integral to plasma membrane Molecular Function: viral receptor activity; riboflavin transporter activity Biological Process: entry of virus into host cell; riboflavin transport Disease: Brown-vialetto-van Laere Syndrome 2

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