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GPCR GPR75 Peptide

Catalog Number: P-GPCR75.101

Lot Number:

General Information

Product	GPCR GPR75 Peptide
Description	Antigenic blocking peptide G Protein- coupled receptor 75 (GPR75) N-epitope
Accession #	Uniprot: O95800 GenBank: AAH67475.1
Verified Applications	Immunodepletion, Immunocompetition
Immunogen	Synthetic peptide taken within amino acid reigon 1-50 on human G protein-coupled receptor 75 protein.
Alternative Nomenclature	GPR chr2 antibody GPR75 antibody OTTHUMP00000159608 antibody WI31133 antibody

Physical Properties

Quantity	250 µg
Volume	100 µl
Form	Antigenic blocking peptide
Storage	Store at -20ºC for long term storage.

Recommended Dilutions

Immunocytochemistry	1:250
Immunofluorescence	1:250
Immunohistochemistry	1:250
Immunoprecipitation	1:250
Western Blot	1:500

Related Products	Catalog #
Affinity Purified Antibody	GPCR75-101AP
BIOTIN-Conjugated	GPCR75.101-BIOTIN
FITC-Conjugated	GPCR75.101-FITC
Western Blot Positive Control	PC-GPCR75.101
Mid-Region Antibody	GPCR75-112AP
C-epitope Antibody	GPCR75-121AP

Overview:

Recently a novel human G-protein coupled receptor gene has been characterized and mapped to chromosome 2p16. This gene codes for a 540 amino acid protein in retinal pigment epithelium (RPE) and cells surrounding retinal arterioles. The Northern blot data obtained from mouse sections, suggests the expression of transcripts in photoreceptor inner segments and I outer plexiform layer. The transcripts of the GPCR-75 gene (7kb) are also found in abundance in brain sections. So far, no mutations in GPCR-75 protein were identified in patients suffering from Doyne's honeycomb retinal dystrophy (DHRD), an inherited retinal degeneration disease that maps to chromosome 2p16 (1).

The GPCR-75 protein is approximately 78 kDa (540 amino acids) protein that is primarily expressed in human retinal pigment epithelium (RPEs). The GPCR-75 sequence analysis suggests the presence of seven transmembrane domains, a characteristic feature of GPCR. The protein has putative N-glycosylation sites near the extracellular N-terminal end of the protein. The protein has a large 3rd intracellular loop which might be the site for interaction of G-proteins. The short carboxy terminal is intracellular and has putative post-translational modification lipid modification sites.

The GPCR-75-selective antibodies were generated against conserved sequences against the N-terminus, Mid-region and C-terminus of the protein. The polyclonal antibody labels a 78 kDa protein in RPE cell extracts. Antibodies can be prepared in custom formulations upon request such as no stabilization buffer or conjugated to secondary enzymes and fluorophores. Antigenic peptides were developed with cyclic peptide methodology for generating antibodies, which results in higher titer and specificity (2). Western blot positive controls are available in limited quantities. For a complete listing of all FabGennix products and services, please visit http://fabgennix.com.

References:

1. Tarttelin E. E., Krischner L. S., Bellingham J., Baffi. J. Taymanas S. E., Gregor E. K., Csaky K., Stratakis C. A., Gregory-Evans C. Y. Biochem. Biophys. Res. Commun. 260, 174-180, 1999.
2. Farooqui, S. M., Brock. W. J., A. Hamdi., Prasad. C. (1991) J. Neurochem. 57, 1363-1369.

For users who may require large amounts of the products listed above, please inquire about bulk material discounts.
This Product is for Research Use Only and is NOT intended for use in humans or clinical diagnosis.