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GPR64 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54803

Specification

GPR64 Polyclonal Antibody - Product Information

Application	**WB, IHC-P, IHC-F, IF, ICC, E**
Primary Accession	Q8IZP9
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**112 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human G protein coupled receptor 64**
Epitope Specificity	**55-170/1017**
Isotype	**IgG**

Purity
affinity purified by Protein A

Buffer	**0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.**
SUBCELLULAR LOCATION	**Cell membrane; Multi pass membrane protein.**
SIMILARITY	**Belongs to the G-protein coupled receptor 2 family. LN-TM7 subfamily. Contains 1 GPS domain.**
SUBUNIT	**Forms a heterodimer, consisting of a large extracellular region linked to a seven-transmembrane moiety (Probable).**
Post-translational modifications	**Proteolytically cleaved into 2 subunits, an extracellular subunit and a seven-transmembrane subunit (Potential).**
Important Note	**This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.**

Background Descriptions
bs-12268P is one synthetic peptide derived from human G protein coupled receptor 64. This orphan B G-protein coupled receptor could be involved in a signal transduction pathway controlling epidymal function and male fertility: it has been reported in the epididymis. ESTs have been isolated from embryo, kidney, placenta, skeletal muscle and testis libraries.

GPR64 Polyclonal Antibody - Additional Information

Gene ID 10149

Other Names
Adhesion G-protein coupled receptor G2, G-protein coupled receptor 64, Human epididymis-specific protein 6, He6, ADGRG2 (<a href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=4516"

target="_blank">HGNC:4516)

Target/Specificity
Epididymis specific. Both subunits were associated with apical membranes of efferent ductule and proximal epididymal duct epithelia.

Dilution
WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ℃.

GPR64 Polyclonal Antibody - Protein Information

Name ADGRG2 {ECO:0000303|PubMed:25713288, ECO:0000312|HGNC:HGNC:4516}

Function
Adhesion G-protein coupled receptor (aGPCR) for steroid hormones, such as dehydroepiandrosterone (DHEA; also named 3beta- hydroxyandrost-5-en-17-one) and androstenedione (PubMed:29393851, PubMed:35982227, PubMed:39884271). Involved in a signal transduction pathway controlling epididymal function and male fertility (PubMed:29393851). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors, such as adenylate cyclase (PubMed:33303626, PubMed:34234254). ADGRG2 is coupled to G(s) G proteins and mediates activation of adenylate cyclase activity (PubMed:29393851, PubMed:34234254). Also able to couple with G(q) G proteins in vitro (PubMed:29393851). Together with CFTR, required to promote fluid reabsorption within efferent ductule (PubMed:29393851).

Cellular Location
Apical cell membrane; Multi-pass membrane protein

Tissue Location
Epididymis-specific expression (at protein level). Both subunits are associated with apical membranes of efferent ductule and proximal epididymal duct epithelia. Mainly expressed in the nonciliated principal cells of the proximal excurrent ducts Specifically over-expressed in Ewing sarcomas but also up-regulated in a number of carcinomas derived from prostate, kidney or lung

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GPR64 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GPR64 Polyclonal Antibody - Images