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Anti-GPR64 / ADGRG2 Reference Antibody (Facet patent anti-GPR64)

Catalog # APR11156

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	Q8IZP9
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Calculated MW	111593

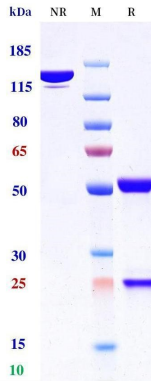
Additional Information

Target/Specificity	GPR64 / ADGRG2
Expression system	CHO

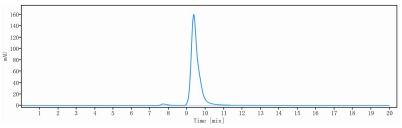
Protein Information

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

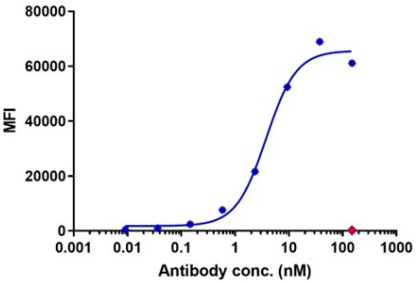
Images



Anti-GPR64 / ADGRG2 Reference Antibody (Facet patent anti-GPR64) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



The purity of Anti-GPR64 / ADGRG2 Reference Antibody (Facet patent anti-GPR64) is 98.2%, determined by SEC-HPLC.



PLVX-puro-huADGRG2-his-P2A-EGFP cells were stained with Facet patent anti GPR64 and negative control protein respectively, washed and then followed by PE and analyzed with FACS, The EC50 is 3.797 nM.