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Anti-ADGRD1 / GPR133 Antibody (C-Terminus)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17421

Product Information

Application	IHC-P
Primary Accession	Q6QNK2
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	96530
Concentration (mg/ml)	1 mg/ml

Additional Information

Gene ID	283383
Alias Symbol	ADGRD1
Other Names	ADGRD1, G protein-coupled receptor 133, GPR133, PGR25
Target/Specificity	Human GPR133. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Reconstitution & Storage	PBS, less than 0.1% sodium azide. Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze thaw cycles.
Precautions	Anti-ADGRD1 / GPR133 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ADGRD1 {ECO:0000303|PubMed:25713288, ECO:0000312|HGNC:HGNC:19893}
Function	Adhesion G protein-coupled receptor (aGPCR) for androgen hormone 5alpha-dihydrotestosterone (5alpha-DHT), also named 17beta-hydroxy-5alpha-androstan-3-one, the most potent hormone among androgens (PubMed:39884271). Also activated by methenolone drug (PubMed:39884271). 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:39884271). ADGRD1 is coupled to G(s) G proteins and mediates activation of adenylate cyclase activity (PubMed:22025619, PubMed:22575658, PubMed:35447113, PubMed:39884271). Acts as a 5alpha-DHT receptor in muscle cells, thereby increasing intracellular cyclic AMP

	(cAMP) levels and enhancing muscle strength (PubMed:39884271).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Up-regulated in CD133(+) cell population of glioblastoma.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.