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GPR133 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP56203

Specification

GPR133 Polyclonal Antibody - Product Information

Application	**IHC-P, IHC-F, IF, ICC, E**
Primary Accession	Q6QNK2
Reactivity	**Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**60 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human GPR133**
Epitope Specificity	**101-200/874**
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.**
SIMILARITY	**Belongs to the G-protein coupled receptor 2 family. LN-TM7 subfamily. Contains 1 GPS domain.**
Important Note	**This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.**

Background Descriptions
The adhesion G-protein-coupled receptors (GPCRs), including GPR133, are membrane-bound proteins with long N termini containing multiple domains. GPCRs, or GPRs, contain 7 transmembrane domains and transduce extracellular signals through heterotrimeric G proteins (summary by Bjarnadottir et al., 2004 [PubMed 15203201]).[supplied by OMIM, Nov 2010]

GPR133 Polyclonal Antibody - Additional Information

Gene ID 283383

Other Names
Adhesion G-protein coupled receptor D1, G-protein coupled receptor 133, G-protein coupled receptor PGR25, ADGRD1, GPR133, PGR25

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

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 ℃.

GPR133 Polyclonal Antibody - 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.

GPR133 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

GPR133 Polyclonal Antibody - Images