

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
Reactivity
Rat
Host
Clonality
Calculated MW
Physical State

Q6QNK2
Rat
Rabbit
Rabbit
Polyclonal
Co KDa
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

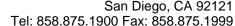
Other Names

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 \><span class</pre>

="dilution IHC-F">IHC-F~~N/A<br \><span class





Format

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

Storage

Store at -20 °C 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 °C.

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 quanine 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