

GPR133 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9499C

Specification

GPR133 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	Q6QNK2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	471-498

GPR133 Antibody (Center) - Additional Information

Gene ID 283383

Other Names

Probable G-protein coupled receptor 133, G-protein coupled receptor PGR25, GPR133, PGR25

Target/Specificity

This GPR133 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 471-498 amino acids from the Central region of human GPR133.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

GPR133 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

GPR133 Antibody (Center) - 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

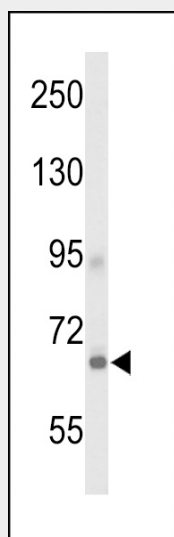
Up-regulated in CD133(+) cell population of glioblastoma.

GPR133 Antibody (Center) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GPR133 Antibody (Center) - Images



Western blot analysis of GPR133 Antibody (Center) (Cat. #AP9499c) in 293 cell line lysates (35ug/lane). GPR133 (arrow) was detected using the purified Pab.

GPR133 Antibody (Center) - Background

GPR133 is an orphan receptor.

GPR133 Antibody (Center) - References

Tonjes, A., et al. Hum. Mol. Genet. 18(23):4662-4668(2009)
Marroni, F., et al. Circ Cardiovasc Genet 2(4):322-328(2009)
Otowa, T., et al. J. Hum. Genet. 54(2):122-126(2009)