

**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	<a href="#">Q6QNK2</a>
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
<b>Purity</b>	
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**

<span class = "dilution\_IHC-P">IHC-P~~N/A</span><br \><span class = "dilution\_IHC-F">IHC-F~~N/A</span><br \><span class = "dilution\_IF">IF~~1:50~200</span><br \><span class = "dilution\_ICC">ICC~~N/A</span><br \><span class = "dilution\_E">E~~N/A</span>

**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:<a href="http://www.uniprot.org/citations/39884271" target="\_blank">39884271</a>). Also activated by methenolone drug (PubMed:<a href="http://www.uniprot.org/citations/39884271" target="\_blank">39884271</a>). 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:<a href="http://www.uniprot.org/citations/39884271" target="\_blank">39884271</a>). ADGRD1 is coupled to G(s) G proteins and mediates activation of adenylate cyclase activity (PubMed:<a href="http://www.uniprot.org/citations/22025619" target="\_blank">22025619</a>, PubMed:<a href="http://www.uniprot.org/citations/22575658" target="\_blank">22575658</a>, PubMed:<a href="http://www.uniprot.org/citations/35447113" target="\_blank">35447113</a>, PubMed:<a href="http://www.uniprot.org/citations/39884271" target="\_blank">39884271</a>). Acts as a 5alpha- DHT receptor in muscle cells, thereby increasing intracellular cyclic AMP (cAMP) levels and enhancing muscle strength (PubMed:<a href="http://www.uniprot.org/citations/39884271" target="\_blank">39884271</a>).

**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 Cytometry](#)
- [Cell Culture](#)

**GPR133 Polyclonal Antibody - Images**