

ADGRD1 / GPR133 Antibody (Cytoplasmic Domain)
Rabbit Polyclonal Antibody
Catalog # ALS10497**Specification****ADGRD1 / GPR133 Antibody (Cytoplasmic Domain) - Product Information**

Application	IHC-P
Primary Accession	Q6QNK2
Reactivity	Human, Rabbit, Monkey, Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	97kDa KDa
Dilution	IHC-P ~ N/A

ADGRD1 / GPR133 Antibody (Cytoplasmic Domain) - Additional Information**Gene ID** 283383**Other Names**

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

Target/Specificity

Human GPR133. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

ADGRD1 / GPR133 Antibody (Cytoplasmic Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

ADGRD1 / GPR133 Antibody (Cytoplasmic Domain) - 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).

target="_blank">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.

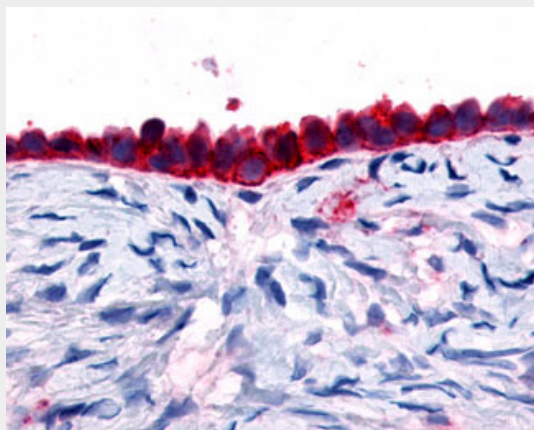
Volume

50 µl

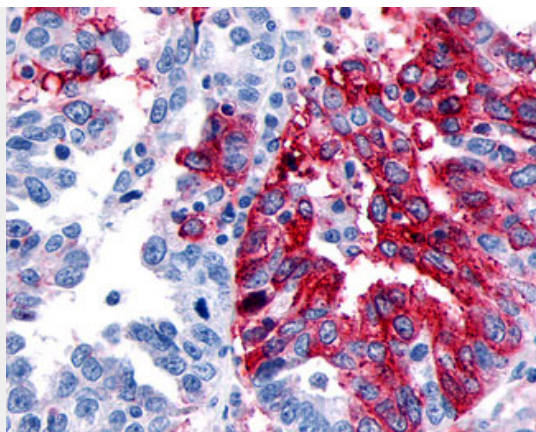
ADGRD1 / GPR133 Antibody (Cytoplasmic Domain) - Protocols

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

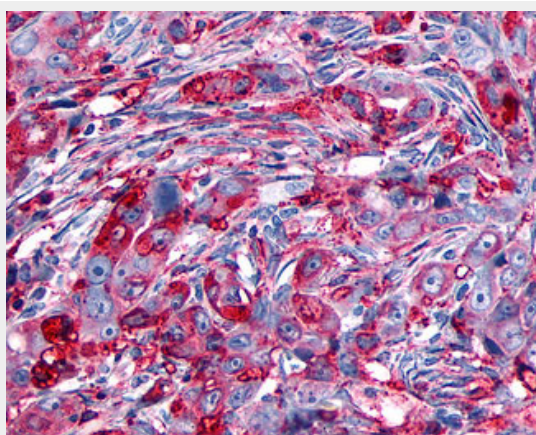
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ADGRD1 / GPR133 Antibody (Cytoplasmic Domain) - Images

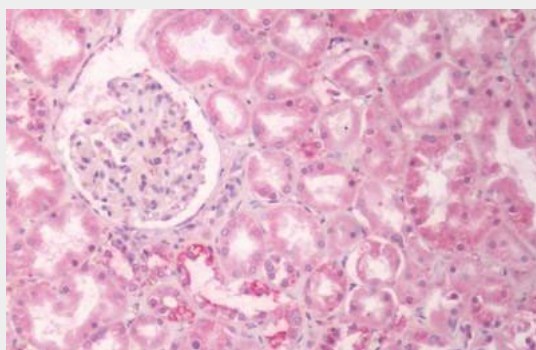
Anti-GPR133 antibody ALS10497 IHC of human ovary, surface epithelium.



Anti-GPR133 antibody IHC of human Ovary, Carcinoma.



Anti-GPR133 antibody IHC of human Ovary, Carcinoma.



Human Kidney: Formalin-Fixed, Paraffin-Embedded (FFPE)

ADGRD1 / GPR133 Antibody (Cytoplasmic Domain) - Background

Orphan receptor.

ADGRD1 / GPR133 Antibody (Cytoplasmic Domain) - References

Bonner T.I., et al. Submitted (JAN-2004) to the EMBL/GenBank/DDBJ databases.
Bjarnadottir T.K., et al. Genomics 84:23-33(2004).
Bonner T.I., et al. Submitted (FEB-2008) to the EMBL/GenBank/DDBJ databases.
Ota T., et al. Nat. Genet. 36:40-45(2004).
Scherer S.E., et al. Nature 440:346-351(2006).