



Rabbit Anti-GPR126 antibody

SL12027R

Product Name:	GPR126
Chinese Name:	G protein-coupled receptor126抗体
Alias:	APG1; Developmentally regulated G-protein-coupled receptor; dj287g14.2; DREG; G-protein coupled receptor 126; GP126_HUMAN; GPR126; HBV PreS1-transactivated protein 2; OTTHUMP00000017320; OTTHUMP000000237093; OTTHUMP000000237094; OTTHUMP000000237115; Probable G-protein coupled receptor 126 [Precursor]; Probable G-protein coupled receptor 126; PS1TP2; Vascular inducible G protein-coupled receptor; VIGR; GPCR GPR126.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Cow,Rabbit,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	139kDa
Cellular localization:	The cell membraneExtracellular matrix
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human G-protein coupled receptor 126:741-850/1221<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	G protein-coupled receptors (GPRs), also known as seven transmembrane receptors,

heptahelical receptors or 7TM receptors, comprise a superfamily of proteins that play a role in many different stimulus-response pathways. G protein coupled receptors translate extracellular signals into intracellular signals (G protein activation) and they respond to a variety of signaling molecules, such as hormones and neurotransmitters. GPR126 (G protein-coupled receptor 126), also known as APG1, DREG, VIGR or PS1TP2, is a 1,221 amino acid multi-pass membrane protein that contains one pentaxin domain, one GPS domain and one CUB domain. Existing as three alternatively spliced isoforms, GPR126 functions as an orphan G protein-coupled receptor that, when subject to genetic variation, may influence stature and adult height.

Function:

Orphan receptor. May be required for normal differentiation of promyelinating Schwann cells and for normal myelination of axons. Signals probably through G-proteins to transiently elevate cAMP levels.

Subcellular Location:

Cell membrane. Detected on the cell surface of activated but not resting umbilical vein.

Tissue Specificity:

Expressed in placenta and to a lower extent in pancreas and liver. Detected in aortic endothelial cells but not in skin microvascular endothelial cells.

Post-translational modifications:

Proteolytically cleaved into 2 conserved sites: one in the GPS domain (S1 site) and the other in the middle of the extracellular domain (S2 site). The proteolytic cleavage at S1 site generates an extracellular subunit and a seven-transmembrane subunit. Furin is involved in the cleavage of the S2 site generating a soluble fragment. Processing at the GPS domain occurred independent of and probably prior to the cleavage at the S2 site.

DISEASE:

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Similarity:

Belongs to the G-protein coupled receptor 2 family. LN-TM7 subfamily.

Contains 1 CUB domain.

Contains 1 GPS domain.

Contains 1 pentaxin domain.

SWISS:

Q86SQ4

Gene ID:

57211

Database links:

[Entrez Gene: 57211](#)Human

[Entrez Gene: 215798](#)Mouse

[Omim: 612243](#)Human

[SwissProt: Q86SQ4](#)Human

[SwissProt: Q6F3F9](#)Mouse

[Unigene: 318894](#)Human

[Unigene: 726094](#)Human

[Unigene: 440142](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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