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Anti-GPR126 Antibody

Catalog # AP61531

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q86SQ4
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	136695

Additional Information

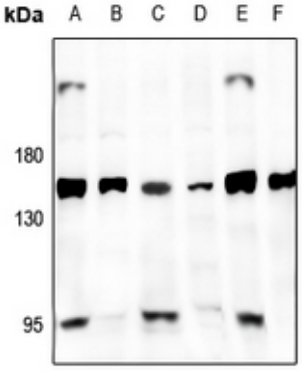
Gene ID	57211
Other Names	DREG; VIGR; G-protein coupled receptor 126; Developmentally regulated G-protein-coupled receptor; Vascular inducible G protein-coupled receptor
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human GPR126. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200), IF/IC (1/100 - 1/500) IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200), IF/IC (1/100 - 1/500) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

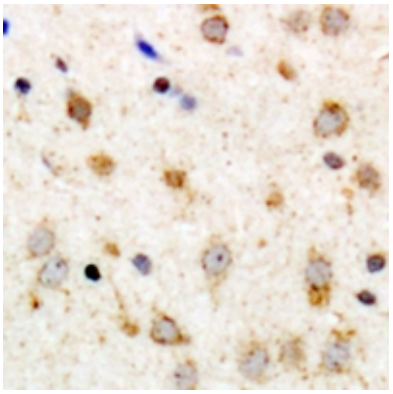
Name	ADGRG6 (HGNC:13841)
Function	Adhesion G protein-coupled receptor (aGPCR) for steroid hormones, such as progesterone and 17alpha-hydroxyprogesterone (17OHP) (PubMed:35394864, PubMed:39884271). Involved in many biological processes, such as myelination, sprouting angiogenesis, placenta, ear and cartilage development (By similarity). 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:24227709, PubMed:35394864). ADGRG6 is coupled to G(i) G alpha proteins and mediates inhibition of adenylate cyclase (PubMed:24227709, PubMed:35394864). Also able to couple to G(q) G proteins (PubMed:24227709). Involved in myelination of the peripheral nervous system: required for differentiation of promyelinating Schwann cells and for normal myelination of axons (PubMed:24227709). Also acts as a regulator of body length and bone mass (PubMed:18391950). Acts as a regulator of

	blood-brain barrier formation in the central nervous system vie its association with LRP1 and ITGB1 (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein. Note=Detected on the cell surface of activated but not resting umbilical vein.
Tissue Location	Expressed in placenta and to a lower extent in pancreas and liver. Detected in aortic endothelial cells but not in skin microvascular endothelial cells.

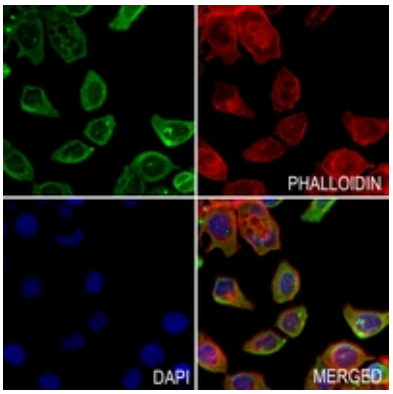
Images



Western blot analysis of GPR126 expression in Beas2B (A), U87MG (B), HEK293T (C), NIHC3T3 (D), MCF7 (E), SKOVCAR3 (F) whole cell lysates. (Predicted band size: 136 kD; Observed band size: 136 kD)

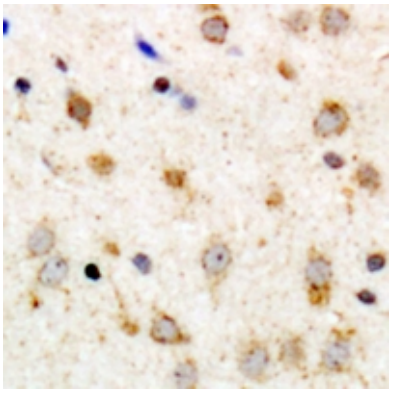


Immunohistochemical analysis of GPR126 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of GPR126 staining in KYSE30 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Immunohistochemical analysis of GPR126 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with



haematoxylin and mounted with DPX.

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