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Anti-GPR124 Antibody

Rabbit polyclonal antibody to GPR124
Catalog # AP61047

Product Information

Application	WB, IF/IC
Primary Accession	Q96PE1
Other Accession	Q91ZV8
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	142647

Additional Information

Gene ID	25960
Other Names	KIAA1531; TEM5; G-protein coupled receptor 124; Tumor endothelial marker 5
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human GPR124. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), 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 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

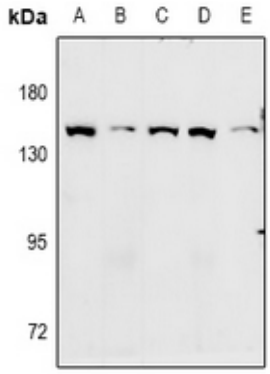
Name	ADGRA2 (HGNC:17849)
Function	Endothelial receptor which functions together with RECK to enable brain endothelial cells to selectively respond to Wnt7 signals (WNT7A or WNT7B) (PubMed:28289266, PubMed:30026314). Plays a key role in Wnt7-specific responses, such as endothelial cell sprouting and migration in the forebrain and neural tube, and establishment of the blood-brain barrier (By similarity). Acts as a Wnt7-specific coactivator of canonical Wnt signaling: required to deliver RECK-bound Wnt7 to frizzled by assembling a higher-order RECK-ADGRA2-Fzd-LRP5-LRP6 complex (PubMed:30026314). ADGRA2-tethering function does not rely on its G-protein coupled receptor (GPCR) structure but instead on its combined capacity to interact with RECK extracellularly and recruit the Dishevelled scaffolding protein intracellularly (PubMed:30026314). Binds to the glycosaminoglycans heparin, heparin sulfate, chondroitin sulfate and dermatan sulfate (PubMed:16982628).

Cellular Location	Cell membrane; Multi-pass membrane protein. Cell projection, filopodium. Note=Enriched at lateral cell borders and also at sites of cell-ECM (extracellular matrix) contact
Tissue Location	Expressed in endothelial cells (at protein level) (PubMed:15021905, PubMed:16982628). Abundantly expressed in heart, placenta, ovary, small intestine, and colon (PubMed:15021905)

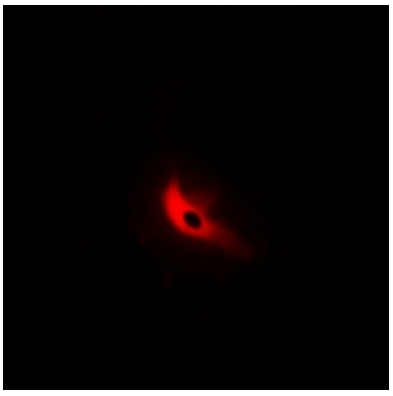
Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human GPR124. The exact sequence is proprietary.

Images



Western blot analysis of GPR124 expression in CT26 (A), PMVEC (B), MEF (C), A549 (D), LOVO (E) whole cell lysates.



Immunofluorescent analysis of GPR124 staining in HeLa 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 Alexa Fluor 647-conjugated secondary antibody (red) in PBS at room temperature in the dark.