

GPR124 Blocking Peptide (C-Term)

Synthetic peptide
Catalog # BP21894b

Specification

GPR124 Blocking Peptide (C-Term) - Product Information

Primary Accession [O96PE1](#)

GPR124 Blocking Peptide (C-Term) - Additional Information

Gene ID 25960

Other Names

G-protein coupled receptor 124, Tumor endothelial marker 5, GPR124, KIAA1531, TEM5

Target/Specificity

The synthetic peptide sequence is selected from aa 1279-1293 of HUMAN GPR124

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GPR124 Blocking Peptide (C-Term) - 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](http://www.uniprot.org/citations/28289266)), PubMed: [30026314](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/30026314)). Binds to the glycosaminoglycans heparin, heparin sulfate, chondroitin sulfate and dermatan sulfate (PubMed: [16982628](http://www.uniprot.org/citations/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)

GPR124 Blocking Peptide (C-Term) - Protocols

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

- [Blocking Peptides](#)

GPR124 Blocking Peptide (C-Term) - Images**GPR124 Blocking Peptide (C-Term) - Background**

Endothelial receptor that acts as an essential regulator of CNS angiogenesis. Required for normal endothelial cell sprouting and migration in the forebrain and neural tube (By similarity).

GPR124 Blocking Peptide (C-Term) - References

Carson-Walter E.B.,et al.Cancer Res. 61:6649-6655(2001).
Nagase T.,et al.DNA Res. 7:143-150(2000).
Nakajima D.,et al.DNA Res. 9:99-106(2002).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Nusbaum C.,et al.Nature 439:331-335(2006).