

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

Synthetic peptide

Catalog # BP21894b

**Specification**

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**GPR124 Blocking Peptide (C-Term) - Product Information**

Primary Accession

[Q96PE1](#)**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:<a href="http://www.uniprot.org/citations/28289266" target="\_blank">28289266</a>, PubMed:<a href="http://www.uniprot.org/citations/30026314" target="\_blank">30026314</a>). 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:<a href="http://www.uniprot.org/citations/30026314" target="\_blank">30026314</a>). 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:<a href="http://www.uniprot.org/citations/30026314" target="\_blank">30026314</a>). Binds to the glycosaminoglycans heparin, heparin sulfate, chondroitin sulfate and dermatan sulfate (PubMed:<a href="http://www.uniprot.org/citations/16982628" target="\_blank">16982628</a>).

**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).