

**UNC5C Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP6919c****Specification**

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**UNC5C Antibody (Center) Blocking Peptide - Product Information**Primary Accession [O95185](#)**UNC5C Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 8633**Other Names**

Netrin receptor UNC5C, Protein unc-5 homolog 3, Protein unc-5 homolog C, UNC5C, UNC5H3

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP6919c](/products/AP6919c) was selected from the Center region of human UNC5C. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**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.

**UNC5C Antibody (Center) Blocking Peptide - Protein Information****Name** UNC5C**Synonyms** UNC5H3**Function**

Receptor for netrin required for axon guidance (By similarity). Mediates axon repulsion of neuronal growth cones in the developing nervous system upon ligand binding (By similarity). NTN1/Netrin-1 binding might cause dissociation of UNC5C from polymerized TUBB3 in microtubules and thereby lead to increased microtubule dynamics and axon repulsion (PubMed: [28483977](http://www.uniprot.org/citations/28483977)). Axon repulsion in growth cones may also be caused by its association with DCC that may trigger signaling for repulsion (By similarity). Might also collaborate with DSCAM in NTN1-mediated axon repulsion independently of DCC (By similarity). Also involved in corticospinal tract axon guidance independently of DCC (By similarity). Involved in dorsal root ganglion axon projection towards the spinal cord (PubMed: [28483977](http://www.uniprot.org/citations/28483977))

target="\_blank">28483977</a>). It also acts as a dependence receptor required for apoptosis induction when not associated with netrin ligand (By similarity).

#### **Cellular Location**

Cell membrane; Single-pass type I membrane protein. Cell surface. Synapse, synaptosome {ECO:0000250|UniProtKB:Q761X5}. Cell projection, axon {ECO:0000250|UniProtKB:O08747}. Cell projection, dendrite {ECO:0000250|UniProtKB:O08747}. Cell projection, growth cone {ECO:0000250|UniProtKB:O08747}. Cell projection, lamellipodium {ECO:0000250|UniProtKB:O08747}. Cell projection, filopodium {ECO:0000250|UniProtKB:O08747}

#### **Tissue Location**

Mainly expressed in brain (PubMed:9782087). Expressed in temporal lobe cortical neurons and in neurons of the hippocampal pyramidal layer (PubMed:25419706). Also expressed in kidney (PubMed:9782087). Not expressed in developing or adult lung (PubMed:9782087).

### **UNC5C Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **UNC5C Antibody (Center) Blocking Peptide - Images**

### **UNC5C Antibody (Center) Blocking Peptide - Background**

UNC5C belongs to the UNC-5 family of netrin receptors. Netrins are secreted proteins that direct axon extension and cell migration during neural development. They are bifunctional proteins that act as attractants for some cell types and as repellents for others, and these opposite actions are thought to be mediated by two classes of receptors. The UNC-5 family of receptors mediate the repellent response to netrin; they are transmembrane proteins containing 2 immunoglobulin (Ig)-like domains and 2 type I thrombospondin motifs in the extracellular region.

### **UNC5C Antibody (Center) Blocking Peptide - References**

Hibi,K., et.al., World J Surg 33 (5), 1053-1057 (2009)