

**DCDC2 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP16874c****Specification**

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**DCDC2 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q9UHG0](#)**DCDC2 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 51473**Other Names**

Doublecortin domain-containing protein 2, Protein RU2S, DCDC2, KIAA1154, RU2

**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.

**DCDC2 Antibody (Center) Blocking Peptide - Protein Information****Name** DCDC2**Synonyms** KIAA1154, RU2**Function**

Protein that plays a role in the inhibition of canonical Wnt signaling pathway (PubMed:<a href="http://www.uniprot.org/citations/25557784" target="\_blank">25557784</a>). May be involved in neuronal migration during development of the cerebral neocortex (By similarity). Involved in the control of ciliogenesis and ciliary length (PubMed:<a href="http://www.uniprot.org/citations/25601850" target="\_blank">25601850</a>, PubMed:<a href="http://www.uniprot.org/citations/27319779" target="\_blank">27319779</a>).

**Cellular Location**

Cell projection, cilium. Cytoplasm, cytoskeleton, cilium axoneme. Cell projection, kinocilium {ECO:0000250|UniProtKB:D3ZR10}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:D3ZR10}. Note=Localizes to the ciliary axoneme and to mitotic spindle fibers in a cell-cycle-dependent manner

**Tissue Location**

Ubiquitously expressed. In brain, highly expressed in the entorhinal cortex, inferior temporal cortex, medial temporal cortex, hypothalamus, amygdala and hippocampus (PubMed:10601354,

PubMed:16278297). Expressed in liver by cholangiocytes, the epithelial cells of the bile ducts (at protein level) (PubMed:27319779)

### **DCDC2 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **DCDC2 Antibody (Center) Blocking Peptide - Images**

### **DCDC2 Antibody (Center) Blocking Peptide - Background**

This gene encodes a protein with two doublecortin peptidodomains. This domain has been demonstrated to bind tubulin and enhance microtubule polymerization. Mutations in this gene have been associated with Reading Disability (RD), also referred to as developmental dyslexia.

### **DCDC2 Antibody (Center) Blocking Peptide - References**

Couto, J.M., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 153B (2), 447-462 (2010) :Meda, S.A., et al. Neuroimage (2009) In press :Couto, J.M., et al. Biol. Psychiatry 66(4):368-375(2009)Wilcke, A., et al. Ann Dyslexia 59(1):1-11(2009)Meda, S.A., et al. Brain Imaging Behav 2(1):21-26(2008)