

# **DCDC2 Polyclonal Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP54638

# **Specification**

# **DCDC2 Polyclonal Antibody - Product Information**

Application
Primary Accession
Reactivity
Host
Clonality

Calculated MW Physical State Immunogen

**Epitope Specificity** 

Isotype **Purity** 

affinity purified by Protein A

Buffer

SIMILARITY DISEASE

Important Note

WB, IHC-P, IHC-F, IF, ICC, E

O9UHGO
Rat, Bovine
Rabbit
Polyclonal
53 KDa
Liquid

KLH conjugated synthetic peptide derived

from human DCDC2

85-168/476

IaG

0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. **Contains 2 doublecortin domains.** Defects in DCDC2 may be a cause of susceptibility to dyslexia type 2 (DYX2) [MIM:600202]; also known as specific reading disability type 2. Dyslexia is a relatively common, complex cognitive disorder that affects 5% to 10% of school-aged children. The disorder is characterized by an impairment of reading performance despite adequate motivational, educational and intellectual opportunities and in the absence of sensory or neurological disability. This product as supplied is intended for

research use only, not for use in human, therapeutic or diagnostic applications.

## **Background Descriptions**

The DCDC2 gene encodes the DCDC2 protein (Doublecortin-containing protein 2, RU2, RU2S) which contains two Doublecortin peptide domains similar to those in the Doublecortin gene. DCDC2 is transcribed as a "normal" gene, which results in a sense transcript (RU2S), but when it is transcribed in the opposite direction, a shorter antisense transcript (RU2AS), which is found in tumors, results. The DCDC2 protein demonstrates ubiquitous expression, whereas RU2AS expression is restricted to normal kidney, bladder, liver and testis, and to tumors of various histologic origins. The deduced DCDC2 protein contains 476 amino acids, while the RU2AS protein contains 84 residues. There is a significant association between dyslexia and several SNPs within the DCDC2 gene.

### **DCDC2 Polyclonal Antibody - Additional Information**



### **Gene ID** 51473

### **Other Names**

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

### Target/Specificity

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

### **Dilution**

```
<span class ="dilution_WB">WB~~1:1000</span><br \><span class
="dilution_IHC-P">IHC-P~~N/A</span><br \><span class
="dilution_IHC-F">IHC-F~~N/A</span><br \><span class
="dilution_IF">IF~~1:50~200</span><br \><span class ="dilution_ICC">ICC~~N/A</span><br \><span class ="dilution_ICC">ICC~~N/A</span><br \><span class ="dilution_ICC">ICC~~N/A</span>
```

#### Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

### Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

## **DCDC2 Polyclonal Antibody - 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**

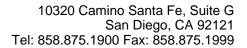
Cell projection, cilium. Cytoplasm, cytoskeleton, cilium axoneme. Cell projection, kinocilium {ECO:0000250|UniProtKB:D3ZR10}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:D3ZR10}. Note=Localizes to the ciliary axoneme and to mitotic spindle fibers in a cell-cycle-dependent manner

### **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 Polyclonal Antibody - Protocols**

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





• Western Blot

- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

**DCDC2 Polyclonal Antibody - Images**