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Goat Anti-DCDC2 Antibody

Peptide-affinity purified goat antibody
Catalog # AF1305a

Specification

Goat Anti-DCDC2 Antibody - Product Information

Application	**WB, IHC**
Primary Accession	Q9UHG0
Other Accession	NP_057440, 51473
Reactivity	**Human, Mouse, Rat**
Predicted	**Pig, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**52834**

Goat Anti-DCDC2 Antibody - Additional Information

Gene ID 51473

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

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-DCDC2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-DCDC2 Antibody - Protein Information

Name DCDC2

Synonyms KIAA1154, RU2

Function
Protein that plays a role in the inhibition of canonical Wnt signaling pathway (PubMed:25557784). 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, PubMed:27319779).

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

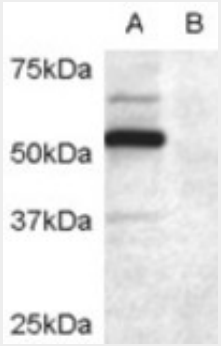
Tissue Location
Ubiquitously expressed. In brain, highly expressed in the entorhinal cortex, inferior temporal cortex, medial temporal cortex, hypothalamus, amygdala and hippocampus (PubMed:10601354, PubMed:16278297). Expressed in liver by cholangiocytes, the epithelial cells of the bile ducts (at protein level) (PubMed:27319779)

Goat Anti-DCDC2 Antibody - Protocols

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

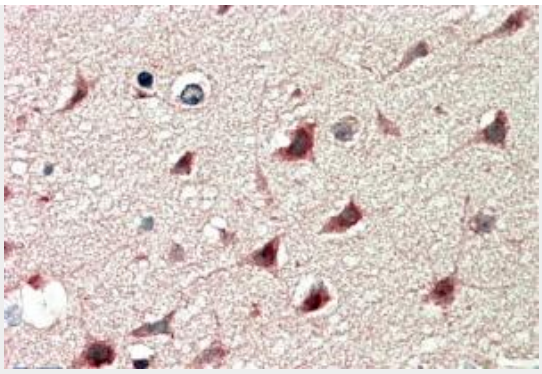
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-DCDC2 Antibody - Images



AF1305a (0.2 µg/ml) staining of COS7 cell lysate transfected with full length recombinant human DCDC2 (A) and untransfected control COS7 cells (B). Primary incubation was 1 hour. Detected by chemiluminescence.

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AF1305a (5 µg/ml) staining of paraffin embedded Human Cerebral Cortex. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Goat Anti-DCDC2 Antibody - Background

This gene encodes a member of the doublecortin family. The protein encoded by this gene contains two doublecortin domains. The doublecortin 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. Alternatively spliced transcript variants encoding the same protein have been found for this gene.

Goat Anti-DCDC2 Antibody - References

The doublecortin gene family and disorders of neuronal structure. Dijkmans TF, et al. Cent Nerv Syst Agents Med Chem, 2010 Mar. PMID 20236041.
Dyslexia and DCDC2: normal variation in reading and spelling is associated with DCDC2 polymorphisms in an Australian population sample. Lind PA, et al. Eur J Hum Genet, 2010 Jun. PMID 20068590.
A pilot multivariate parallel ICA study to investigate differential linkage between neural networks and genetic profiles in schizophrenia. Meda SA, et al. Neuroimage, 2010 Nov 15. PMID 19944766.
Progress towards a cellular neurobiology of reading disability. Gabel LA, et al. Neurobiol Dis, 2010 May. PMID 19616627.
Association of reading disabilities with regions marked by acetylated H3 histones in KIAA0319. Couto JM, et al. Am J Med Genet B Neuropsychiatr Genet, 2010 Mar 5. PMID 19588467.