

# DCDC2 (I-20): sc-50726

## BACKGROUND

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.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: DCDC2 (human) mapping to 6p22.3; Dcdc2a (mouse) mapping to 13 A3.1.

## SOURCE

DCDC2 (I-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of DCDC2 of mouse origin.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-50726 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

DCDC2 (I-20) is recommended for detection of DCDC2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

DCDC2 (I-20) is also recommended for detection of DCDC2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for DCDC2 siRNA (h): sc-60505, DCDC2 siRNA (m): sc-60506, DCDC2 shRNA Plasmid (h): sc-60505-SH, DCDC2 shRNA Plasmid (m): sc-60506-SH, DCDC2 shRNA (h) Lentiviral Particles: sc-60505-V and DCDC2 shRNA (m) Lentiviral Particles: sc-60506-V.

Molecular Weight of DCDC2: 53 kDa.

Positive Controls: mouse brain extract: sc-2253, rat brain extract: sc-2392 or rat kidney extract: sc-2394.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **DCDC2 (B-5): sc-398248** or **DCDC2 (C-4): sc-166051**, our highly recommended monoclonal alternatives to DCDC2 (I-20).