

DCDC2 (E-11): sc-398638

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 (E-11) is a mouse monoclonal antibody raised against amino acids 351-475 mapping at the C-terminus of DCDC2 of mouse origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

RESEARCH USE

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

APPLICATIONS

DCDC2 (E-11) is recommended for detection of DCDC2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

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.

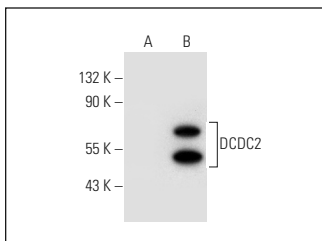
Molecular Weight of DCDC2: 53 kDa.

Positive Controls: DCDC2 (h): 293T Lysate: sc-116299, ACHN whole cell lysate: sc-364365 or Caco-2 cell lysate: sc-2262.

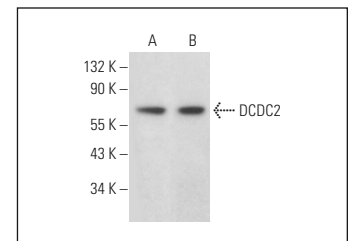
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



DCDC2 (E-11): sc-398638. Western blot analysis of DCDC2 expression in non-transfected: sc-117752 (A) and human DCDC2 transfected: sc-116299 (B) 293T whole cell lysates.



DCDC2 (E-11): sc-398638. Western blot analysis of DCDC2 expression in ACHN (A) and Caco-2 (B) whole cell lysates.

STORAGE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.