DACH2 (P-17): sc-74394



The Power to Question

BACKGROUND

DACH2 (Dachshund homolog 2) is one of two mammalian homologues of the *Drosophila* dachschund, a transcription factor involved in cell fate determination in the eye, limb and genital disc of the fly. DACH2 is a 599 amino acid protein that contains two characteristic dachshund domains: an N-terminal domain responsible for DNA binding and a C-terminal domain responsible for protein-protein interactions. Localized to the nucleus, DACH2 functions as a transcription factor that is involved in the regulation of organogenesis. DACH2 interacts with Six1 and EYA2 to regulate myogenesis, and is also involved in the corepression of Six6 by directly repressing cyclin-dependent kinase inhibitors. Three named isoforms of DACH2 exist as a result of alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DACH2 (human) mapping to Xq21.2; Dach2 (mouse) mapping to X E1.

SOURCE

DACH2 (P-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of DACH2 of human 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-74394 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-74394 X, 200 μ g/0.1 ml.

APPLICATIONS

DACH2 (P-17) is recommended for detection of DACH2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

DACH2 (P-17) is also recommended for detection of DACH2 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for DACH2 siRNA (h): sc-77091, DACH2 siRNA (m): sc-77092, DACH2 shRNA Plasmid (h): sc-77091-SH, DACH2 shRNA Plasmid (m): sc-77092-SH, DACH2 shRNA (h) Lentiviral Particles: sc-77091-V and DACH2 shRNA (m) Lentiviral Particles: sc-77092-V.

DACH2 (P-17) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of DACH2: 65 kDa.

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) 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 or our catalog for detailed protocols and support products.

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