

DBC1 (N-15): sc-160267

BACKGROUND

DBC1 (deleted in bladder cancer 1), also known as DBCCR1 or FAM5A, is a novel 761 amino acid cytoplasmic protein that functions as an essential regulator of tumorigenesis and mediates expression of components of the plasminogen pathway. Evolutionarily conserved and highly expressed in brain, DBC1 is found at weak levels in small intestine, lung, kidney, testis, prostate, thymus, heart and kidney. DBC1 contains one MACPF domain, belongs to the FAM5 family and inhibits cell proliferation at the G₁/S transition via negative regulation. DBC1 contains a 5' CpG island that, when hypermethylated, leads to silencing in 50 percent of bladder cancer cell lines. DBC1 mediates cell death and exists as three alternatively spliced isoforms that are encoded by a gene that maps to human chromosome 9q33.1.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DBC1 (human) mapping to 9q33.1; Dbc1 (mouse) mapping to 4 C1.

SOURCE

DBC1 (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of DBC1 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-160267 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DBC1 (N-15) is recommended for detection of DBC1 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).

DBC1 (N-15) is also recommended for detection of DBC1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for DBC1 siRNA (h): sc-92672, DBC1 siRNA (m): sc-142880, DBC1 shRNA Plasmid (h): sc-92672-SH, DBC1 shRNA Plasmid (m): sc-142880-SH, DBC1 shRNA (h) Lentiviral Particles: sc-92672-V and DBC1 shRNA (m) Lentiviral Particles: sc-142880-V.

Molecular Weight of DBC1: 89 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.

STORAGE

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

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.