

DBC-2 (K-17): sc-87066

BACKGROUND

The Rho subfamily of Ras-related GTPases controls multiple aspects of cell function, including cytoskeletal rearrangement, nuclear signaling and cell growth. DBC-2 (Deleted in breast cancer 2 gene protein), also known as RHOBTB2 (Rho-related BTB domain-containing protein 2), is a 727 amino acid member of the RhoBTB subfamily of Rho GTPases. Members of the RhoBTB subfamily are evolutionarily conserved and are characterized by a proline-rich region, a GTPase domain and two tandem BTB repeats. Expressed ubiquitously with highest levels in neural tissue, heart, brain and fetal lung, DBC-2 contains two BTB (POZ) domains through which it may bind to and regulate the function of target proteins, such as CUL-3. Additionally, DBC-2 is thought to function as a regulator of cell cycle and apoptosis events. Under normal conditions, DBC-2 is thought to exhibit tumor suppressor activity. Mutations in the gene encoding DBC-2 are associated with breast cancer, suggesting that mutated DBC-2 may play a role in carcinogenesis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RHOBTB2 (human) mapping to 8p21.3; Rhobtb2 (mouse) mapping to 14 D2.

SOURCE

DBC-2 (K-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of DBC-2 of human origin.

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-87066 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DBC-2 (K-17) is recommended for detection of DBC-2 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); non cross-reactive with DBC-1.

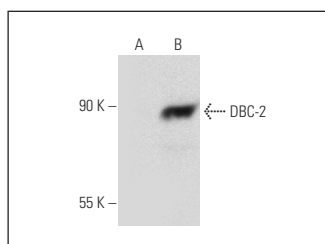
DBC-2 (K-17) is also recommended for detection of DBC-2 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for DBC-2 siRNA (h): sc-77501, DBC-2 siRNA (m): sc-142879, DBC-2 shRNA Plasmid (h): sc-77501-SH, DBC-2 shRNA Plasmid (m): sc-142879-SH, DBC-2 shRNA (h) Lentiviral Particles: sc-77501-V and DBC-2 shRNA (m) Lentiviral Particles: sc-142879-V.

Molecular Weight of DBC-2: 83 kDa.

Positive Controls: DBC-2 (m): 293T Lysate: sc-119665, HL-60 whole cell lysate: sc-2209 or mouse lung extract: sc-2390.

DATA



DBC-2 (K-17): sc-87066. Western blot analysis of DBC-2 expression in non-transfected: sc-117752 (A) and mouse DBC-2 transfected: sc-119665 (B) 293T 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.

RESEARCH USE

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



Try **DBC-2 (G-12): sc-398774**, our highly recommended monoclonal alternative to DBC-2 (K-17).