

CCDC64B (D-20): sc-246179

BACKGROUND

BICD1 (Bicaudal D Homolog 1 (*Drosophila*)) colocalizes with Rab 6A on the trans-Golgi network and on cytoplasmic vesicles, and is known to recruit the dynein-dynactin motor complex to regulate coat complex coatomer protein I (COPI)-independent Golgi-to-endoplasmic reticulum vacuolar transport. Belonging to the BICDR family, CCDC64B (coiled-coil domain-containing protein 64B), also known as BICDR2 (Bicaudal D-related protein 2), is a 488 amino acid protein that interacts with Rab 13. There are two isoforms of CCDC64B that exist as a result of alternative splicing events. The gene encoding CCDC64B maps to human chromosome 16, which encodes over 900 genes and comprises nearly 3% of the human genome.

REFERENCES

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4. Januschke, J., et al. 2007. Rab6 and the secretory pathway affect oocyte polarity in *Drosophila*. *Development* 134: 3419-3425.
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CHROMOSOMAL LOCATION

Genetic locus: CCDC64B (human) mapping to 16p13.3.

SOURCE

CCDC64B (D-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CCDC64B 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-246179 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CCDC64B (D-20) is recommended for detection of CCDC64B of 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); non cross-reactive with CCDC64.

CCDC64B (D-20) is also recommended for detection of CCDC64B in additional species, including equine and canine.

Suitable for use as control antibody for CCDC64B siRNA (h): sc-93551, CCDC64B shRNA Plasmid (h): sc-93551-SH and CCDC64B shRNA (h) Lentiviral Particles: sc-93551-V.

Molecular Weight of CCDC64B isoforms: 57/34 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.