

CCDC53 (N-17): sc-242371

BACKGROUND

The coiled-coil domain is a structural motif found in proteins that are involved in a diverse array of biological functions such as the regulation of gene expression, cell division, membrane fusion and drug extrusion and delivery. CCDC53 (coiled-coil domain containing 53), also known as WASH complex subunit CCDC53, is a 194 amino acid protein that is a component of the WASH complex. Playing an essential role in the fission of tubules that serve as transport intermediates during endosome sorting, the WASH complex is present at the surface of endosomes and functions to recruit and activate the Arp2/3 complex for induction of actin polymerization.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CCDC53 (human) mapping to 12q23.2; Ccdc53 (mouse) mapping to 10 C1.

SOURCE

CCDC53 (N-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of CCDC53 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-242371 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CCDC53 (N-17) is recommended for detection of CCDC53 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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 other CCDC family members.

CCDC53 (N-17) is also recommended for detection of CCDC53 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for CCDC53 siRNA (h): sc-95751, CCDC53 siRNA (m): sc-142120, CCDC53 shRNA Plasmid (h): sc-95751-SH, CCDC53 shRNA Plasmid (m): sc-142120-SH, CCDC53 shRNA (h) Lentiviral Particles: sc-95751-V and CCDC53 shRNA (m) Lentiviral Particles: sc-142120-V.

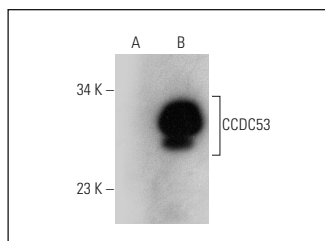
Molecular Weight of CCDC53: 21 kDa.

Positive Controls: CCDC53 (m): 293T Lysate: sc-119068.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



CCDC53 (N-17): sc-242371. Western blot analysis of CCDC53 expression in non-transfected: sc-117752 (A) and mouse CCDC53 transfected: sc-119068 (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.