

# CCDC73 (D-8): sc-514344

## 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. CCDC73 (coiled-coil domain-containing protein 73), also known as sarcoma antigen NY-SAR-79, is a 1,079 amino acid protein that exists as 2 alternatively spliced isoforms. The gene encoding CCDC73 maps to human chromosome 11, which houses over 1,400 genes and comprises nearly 4% of the human genome. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are associated with defects in genes that maps to chromosome 11.

## REFERENCES

1. Gilbert, F. 2000. Disease genes and chromosomes: disease maps of the human genome. *Genet. Test.* 4: 409-426.
2. Lee, S.Y., et al. 2003. Immunomic analysis of human sarcoma. *Proc. Natl. Acad. Sci. USA* 100: 2651-2656.
3. Mason, J.M., et al. 2004. Coiled coil domains: stability, specificity, and biological implications. *Chembiochem* 5: 170-176.
4. Wuyts, W., et al. 2004. Proximal 11p deletion syndrome (P11pDS): additional evaluation of the clinical and molecular aspects. *Eur. J. Hum. Genet.* 12: 400-406.
5. Taylor, T.D., et al. 2006. Human chromosome 11 DNA sequence and analysis including novel gene identification. *Nature* 440: 497-500.
6. Liu, J., et al. 2006. A seven-helix coiled coil. *Proc. Natl. Acad. Sci. USA* 103: 15457-15462.

## CHROMOSOMAL LOCATION

Genetic locus: CCDC73 (human) mapping to 11p13; Ccdc73 (mouse) mapping to 2 E2.

## SOURCE

CCDC73 (D-8) is a mouse monoclonal antibody raised against amino acids 303-348 mapping within an internal region of CCDC73 of human origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CCDC73 (D-8) is available conjugated to agarose (sc-514344 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-514344 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-514344 PE), fluorescein (sc-514344 FITC), Alexa Fluor® 488 (sc-514344 AF488), Alexa Fluor® 546 (sc-514344 AF546), Alexa Fluor® 594 (sc-514344 AF594) or Alexa Fluor® 647 (sc-514344 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-514344 AF680) or Alexa Fluor® 790 (sc-514344 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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## APPLICATIONS

CCDC73 (D-8) is recommended for detection of CCDC73 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for CCDC73 siRNA (h): sc-96497, CCDC73 siRNA (m): sc-142140, CCDC73 shRNA Plasmid (h): sc-96497-SH, CCDC73 shRNA Plasmid (m): sc-142140-SH, CCDC73 shRNA (h) Lentiviral Particles: sc-96497-V and CCDC73 shRNA (m) Lentiviral Particles: sc-142140-V.

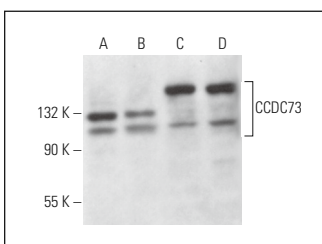
Molecular Weight of CCDC73 isoforms: 124/56 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, CCRF-CEM cell lysate: sc-2225 or TK-1 whole cell lysate: sc-364798.

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

## DATA



CCDC73 (D-8): sc-514344. Western blot analysis of CCDC73 expression in Jurkat (A), CCRF-CEM (B), TK-1 (C) and F9 (D) 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.