

# CCDC75 (C-17): sc-246188

## 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. CCDC75 (coiled-coil domain-containing protein 75), also known as GPATCH11 (G patch domain-containing protein 11), is a 259 amino acid protein that contains one G-patch domain, which is a short conserved region that is found in putative RNA-binding proteins. There are two isoforms of CCDC75 that exist as a result of alternative splicing events. The gene encoding CCDC75 maps to human chromosome 2, which houses over 1,400 genes and comprises nearly 8% of the human genome.

## REFERENCES

1. Harbury, P.B., et al. 1993. A switch between two-, three-, and four-stranded coiled coils in GCN4 leucine zipper mutants. *Science* 262: 1401-1407.
2. Harbury, P.B., et al. 1998. High-resolution protein design with backbone freedom. *Science* 282: 1462-1467.
3. Drabkin, H.A., et al. 1999. DEF-3(g16/NY-LU-12), an RNA binding protein from the 3p21.3 homozygous deletion region in SCLC. *Oncogene* 18: 2589-2597.
4. Aravind, L. and Koonin, E.V. 1999. G-patch: a new conserved domain in eukaryotic RNA-processing proteins and type D retroviral polyproteins. *Trends Biochem. Sci.* 24: 342-344.
5. Mason, J.M. and Arndt, K.M. 2004. Coiled coil domains: stability, specificity, and biological implications. *ChemBiochem* 5: 170-176.
6. Hillier, L.W., et al. 2005. Generation and annotation of the DNA sequences of human chromosomes 2 and 4. *Nature* 434: 724-731.

## CHROMOSOMAL LOCATION

Genetic locus: CCDC75 (human) mapping to 2p22.2; Ccdc75 (mouse) mapping to 17 E3.

## SOURCE

CCDC75 (C-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of CCDC75 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-246188 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## 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.

## APPLICATIONS

CCDC75 (C-17) is recommended for detection of CCDC75 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); non cross-reactive with other CCDC family members.

CCDC75 (C-17) is also recommended for detection of CCDC75 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for CCDC75 siRNA (h): sc-94374, CCDC75 siRNA (m): sc-142141, CCDC75 shRNA Plasmid (h): sc-94374-SH, CCDC75 shRNA Plasmid (m): sc-142141-SH, CCDC75 shRNA (h) Lentiviral Particles: sc-94374-V and CCDC75 shRNA (m) Lentiviral Particles: sc-142141-V.

Molecular Weight of CCDC75 isoforms: 30/19 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.

## PROTOCOLS

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