

CCDC8 (P-16): sc-242375

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. CCDC8 (coiled-coil domain-containing protein 8) is a 538 amino acid protein that is phosphorylated upon DNA damage, likely by ATM or ATR. The gene encoding CCDC8 maps to human chromosome 19, which consists of over 63 million bases and houses approximately 1,400 genes. Chromosome 19 is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin (Ig) superfamily members, including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG family and Fc receptors (FcRs). Key genes for eye color and hair color also map to chromosome 19.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CCDC8 (human) mapping to 19q13.32; Ccdc8 (mouse) mapping to 7 A2.

RESEARCH USE

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

SOURCE

CCDC8 (P-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CCDC8 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-242375 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CCDC8 (P-16) is recommended for detection of CCDC8 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.

CCDC8 (P-16) is also recommended for detection of CCDC8 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for CCDC8 siRNA (h): sc-97657, CCDC8 siRNA (m): sc-144669, CCDC8 shRNA Plasmid (h): sc-97657-SH, CCDC8 shRNA Plasmid (m): sc-144669-SH, CCDC8 shRNA (h) Lentiviral Particles: sc-97657-V and CCDC8 shRNA (m) Lentiviral Particles: sc-144669-V.

Molecular Weight of CCDC8: 59 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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.