# CCDC81 (F-16): sc-246192



The Power to Question

#### **BACKGROUND**

CCDC81 (coiled-coil domain-containing protein 81) is a 652 amino acid protein that exists as 3 alternatively spliced isoforms. The gene that encodes CCDC81 consists of more than 48,000 bases and maps to human chromosome 11q14.2. Chromosome 11, which comprises approximately 4% of the human genome, is considered a gene and disease association-dense chromosome. The chromosome 11 encoded Atm gene is important for regulation of cell cycle arrest and apoptosis following double strand DNA breaks. Atm mutation leads to the disorder known as ataxia-telangiectasia. The blood disorders Sickle cell anemia and thalassemia are caused by HBB gene mutations, while Wilms' tumors, WAGR syndrome and Denys-Drash syndrome are associated with mutations of the WT1 gene. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are also associated with defects in chromosome 11-encoded genes.

#### **REFERENCES**

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## CHROMOSOMAL LOCATION

Genetic locus: CCDC81 (human) mapping to 11q14.2; Ccdc81 (mouse) mapping to 7 E1.

#### **SOURCE**

CCDC81 (F-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CCDC81 of human origin.

#### **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-246192 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

CCDC81 (F-16) is recommended for detection of CCDC81 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.

CCDC81 (F-16) is also recommended for detection of CCDC81 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for CCDC81 siRNA (h): sc-96344, CCDC81 siRNA (m): sc-142146, CCDC81 shRNA Plasmid (h): sc-96344-SH, CCDC81 shRNA Plasmid (m): sc-142146-SH, CCDC81 shRNA (h) Lentiviral Particles: sc-96344-V and CCDC81 shRNA (m) Lentiviral Particles: sc-142146-V.

Molecular Weight of CCDC81 isoforms: 76/66/46 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.

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