# CCDC56 (G-15): sc-240207



The Power to Question

#### **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. CCDC56 (coiled-coil domain containing 56) is a 106 amino acid single-pass membrane protein encoded by a gene that maps to human chromosome 17q21. Encoding over 1,200 genes, chromosome 17 comprises over 2.5% of the human genome. Two key tumor suppressor genes are associated with chromosome 17, namely, p53 and BRCA1. Tumor suppressor p53 is necessary for maintenance of cellular genetic integrity by moderating cell fate through DNA repair versus cell death. Malfunction or loss of p53 expression is associated with malignant cell growth and Li-Fraumeni syndrome.

# **REFERENCES**

- 1. Smith, M.L., et al. 1996. Mammalian DNA damage-inducible genes associated with growth arrest and apoptosis. Mutat. Res. 340: 109-124.
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- 4. Ben-Porath, I., et al. 2005. The signals and pathways activating cellular senescence. Int. J. Biochem. Cell Biol. 37: 961-976.
- Wang, J., et al. 2010. MCM3AP, a novel HBV integration site in hepatocellular carcinoma and its implication in hepatocarcinogenesis. J. Huazhong Univ. Sci. Technol. Med. Sci. 30: 425-429.

## **CHROMOSOMAL LOCATION**

Genetic locus: CCDC56 (human) mapping to 17q21.31; Ccdc56 (mouse) mapping to 11 D.

#### **SOURCE**

CCDC56 (G-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of CCDC56 of human origin.

## **PRODUCT**

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

Blocking peptide available for competition studies, sc-240207 P, (100  $\mu$ g 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.

#### **PROTOCOLS**

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

#### **APPLICATIONS**

CCDC56 (G-15) is recommended for detection of CCDC56 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.

Suitable for use as control antibody for CCDC56 siRNA (h): sc-93975, CCDC56 siRNA (m): sc-142122, CCDC56 shRNA Plasmid (h): sc-93975-SH, CCDC56 shRNA Plasmid (m): sc-142122-SH, CCDC56 shRNA (h) Lentiviral Particles: sc-93975-V and CCDC56 shRNA (m) Lentiviral Particles: sc-142122-V.

Molecular Weight of CCDC56: 12 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) with UltraCruz™ Mounting Medium: sc-24941.

## **RESEARCH USE**

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

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