# C1orf144 (D-16): sc-242131



The Power to Question

#### **BACKGROUND**

Chromosome 1 is the largest human chromosome spanning about 260 million base pairs and making up 8% of the human genome. There are about 3,000 genes on chromosome 1, and considering the great number of genes there are also a large number of diseases associated with chromosome 1. Notably, the rare aging disease Hutchinson-Gilford progeria is associated with the LMNA gene which encodes Lamin A. When defective, the LMNA gene product can build up in the nucleus and cause characteristic nuclear blebs. The mechanism of rapidly enhanced aging is unclear and is a topic of continuing exploration. The MUTYH gene is located on chromosome 1 and is partially responsible for familial adenomatous polyposis. Stickler syndrome, Parkinsons, Gaucher disease and Usher syndrome are also associated with chromosome 1. A breakpoint has been identified in 1q which disrupts the DISC1 gene and is linked to schizophrenia. Aberrations in chromosome 1 are found in a variety of cancers including head and neck cancer, malignant melanoma and multiple myeloma. The C1orf144 gene product has been provisionally designated C1orf144 pending further characterization.

# **REFERENCES**

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#### **CHROMOSOMAL LOCATION**

Genetic locus: C1orf144 (human) mapping to 1p36.13; D4Ertd22e (mouse) mapping to 4 D3.

### **SOURCE**

C1orf144 (D-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of C1orf144 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-242131 P, ( $100 \mu \text{g}$  peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## **APPLICATIONS**

C1orf144 (D-16) is recommended for detection of C1orf144 of human origin, D4Ertd22e of mouse origin and the corresponding rat homolog 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).

C1orf144 (D-16) is also recommended for detection of C1orf144 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for C1orf144 siRNA (h): sc-88322, D4Ertd22e siRNA (m): sc-142827, C1orf144 shRNA Plasmid (h): sc-88322-SH, D4Ertd22e shRNA Plasmid (m): sc-142827-SH, C1orf144 shRNA (h) Lentiviral Particles: sc-88322-V and D4Ertd22e shRNA (m) Lentiviral Particles: sc-142827-V.

Molecular Weight of C1orf144 isoforms: 17/15 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, \*\*D0 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.

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