

C1orf85 (V-18): sc-242156

BACKGROUND

C1orf85, also known as Lysosomal protein NCU-G1, is a 406 amino acid single-pass membrane protein that is highly glycosylated on its amino-terminal end. Transcription of the gene encoding C1orf85 is activated by TFEB, a transcription factor that specifically recognizes and binds E-box sequences. There are two isoforms of C1orf85 that are produced as a result of alternative splicing events. The C1orf85 maps to human chromosome 1, 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.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: C1orf85 (human) mapping to 1q22.

SOURCE

C1orf85 (V-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of C1orf85 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-242156 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-242156 X, 200 µg/0.1 ml.

APPLICATIONS

C1orf85 (V-18) is recommended for detection of C1orf85 of 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).

C1orf85 (V-18) is also recommended for detection of C1orf85 in additional species, including bovine and porcine.

Suitable for use as control antibody for C1orf85 siRNA (h): sc-78568, C1orf85 shRNA Plasmid (h): sc-78568-SH and C1orf85 shRNA (h) Lentiviral Particles: sc-78568-V.

C1orf85 (V-18) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of C1orf85 isoforms 1/2: 44/35 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.