SANTA CRUZ BIOTECHNOLOGY, INC.

C1orf116 (S-16): sc-163848

SANTA CRUZ BIOTECHNOLOGY

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 C1orf116 gene product has been provisionally designated C1orf116 pending further characterization.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: C1orf116 (human) mapping to 1q32.1; AA986860 (mouse) mapping to 1 E4.

SOURCE

C1orf116 (S-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of C1orf116 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-163848 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

C1orf116 (S-16) is recommended for detection of C1orf116 of human origin and AA986860 of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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 C1orf family members.

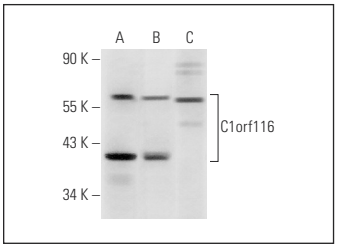
C1orf116 (S-16) is also recommended for detection of C1orf116 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for C1orf116 siRNA (h): sc-88075, AA986860 siRNA (m): sc-140725, C1orf116 shRNA Plasmid (h): sc-88075-SH, AA986860 shRNA Plasmid (m): sc-140725-SH, C1orf116 shRNA (h) Lentiviral Particles: sc-88075-V and AA986860 shRNA (m) Lentiviral Particles: sc-140725-V.

Molecular Weight of C1orf116: 64/38 kDa.

Positive Controls: PC-3 cell lysate: sc-2220, RT-4 whole cell lysate: sc-364257 or human tonsil tissue extract: sc-364263.

DATA



C1orf116 (S-16): sc-163848. Western blot analysis of C1orf116 expression in RT-4 (**A**) and PC-3 (**B**) whole cell lysates and human tonsil tissue extract (**C**).

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.