SANTA CRUZ BIOTECHNOLOGY, INC.

MAB21L3 (W-16): sc-245585

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 MAB21L3 gene product has been provisionally designated MAB21L3 pending further characterization.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MAB21L3 (human) mapping to 1p13.1; Mab21l3 (mouse) mapping to 3 F2.2.

SOURCE

MAB21L3 (W-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of MAB21L3 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-245585 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MAB21L3 (W-16) is recommended for detection of MAB21L3 of mouse and human 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).

MAB21L3 (W-16) is also recommended for detection of MAB21L3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for MAB21L3 siRNA (h): sc-88461, MAB21L3 siRNA (m): sc-141577, C1orf161 shRNA Plasmid (h): sc-88461-SH, MAB21L3 shRNA Plasmid (m): sc-141577-SH, MAB21L3 shRNA (h) Lentiviral Particles: sc-88461-V and MAB21L3 shRNA (m) Lentiviral Particles: sc-141577-V.

Molecular Weight of MAB21L3: 42 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.