

C7orf53 (Q-16): sc-245960

BACKGROUND

C7orf53 (chromosome 7 open reading frame 53) is a 131 amino acid single-pass membrane protein that exists as 2 alternatively spliced isoforms. C7orf53 is encoded by a gene that maps to human chromosome 7q31.1 and mouse chromosome 12 B1. Chromosome 7 houses over 1,000 genes and comprises nearly 5% of the human genome. Chromosome 7 has been linked to osteogenesis imperfecta, Pendred syndrome, lissencephaly, citrullinemia and Shwachman-Diamond syndrome. The deletion of a portion of the q arm of chromosome 7 is associated with Williams-Beuren syndrome, a condition characterized by mild mental retardation, an unusual comfourt and friendliness with strangers and an elfin appearance. Deletions of portions of the q arm of chromosome 7 are also seen in a number of myeloid disorders including cases of acute myelogenous leukemia and myelodysplasia.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: C7orf53 (human) mapping to 7q31.1; Gm889 (mouse) mapping to 12 B1.

SOURCE

C7orf53 (Q-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of C7orf53 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-245960 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

C7orf53 (Q-16) is recommended for detection of C7orf53 of human origin, Gm889 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).

C7orf53 (Q-16) is also recommended for detection of C7orf53 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for C7orf53 siRNA (h): sc-89732, Gm889 siRNA (m): sc-145628, C7orf53 shRNA Plasmid (h): sc-89732-SH, Gm889 shRNA Plasmid (m): sc-145628-SH, C7orf53 shRNA (h) Lentiviral Particles: sc-89732-V and Gm889 shRNA (m) Lentiviral Particles: sc-145628-V.

Molecular Weight of C7orf53 isoforms: 14/7 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.

PROTOCOLS

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