



MACROD2 (C-20): sc-87990

BACKGROUND

MACROD2 (MACRO domain containing 2), also known as C20orf133, dJ631M13.5 or RP11-189J1.1, is a 448 amino acid protein expressed in brain, skeletal muscle, thymus, pancreas, prostate, liver, kidney and lung. As a result of alternative splicing, six MACROD2 isoforms exist. MACROD2 mutations may be responsible for the development of Kabuki syndrome, a rare congenital mental retardation and the gene encoding MACROD2 maps to human chromosome 20p12.1. Comprising approximately 2% of the human genome, chromosome 20 contains nearly 63 million bases that encode over 600 genes, some of which are associated with Creutzfeldt-Jakob disease, amyotrophic lateral sclerosis, spinal muscular atrophy, ring chromosome 20 epilepsy syndrome and Alagille syndrome. Additionally, chromosome 20 contains a region with numerous genes which are thought important for seminal production and may be potential targets for male contraception.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MACROD2 (human) mapping to 20p12.1.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

SOURCE

MACROD2 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of MACROD2 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-87990 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MACROD2 (C-20) is recommended for detection of MACROD2 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).

Suitable for use as control antibody for MACROD2 siRNA (h): sc-72705, MACROD2 shRNA Plasmid (h): sc-72705-SH and MACROD2 shRNA (h) Lentiviral Particles: sc-72705-V.

Molecular Weight of MACROD2: 50 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.

PROTOCOLS

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