

MEGF11 (D-14): sc-164980

BACKGROUND

MEGF11 (multiple epidermal growth factor-like domains protein 11) is a 1,044 amino acid single-pass type I membrane protein that belongs to the MEGF family. MEGF11 exists as a homopolymer that primarily localizes to protruding lamellipodia in an irregular, mosaic-like adhesion pattern. Expressed at high levels in adult and fetal brain and adult spinal cord, MEGF11 is found at lower levels in kidney, ovary and heart. MEGF11 contains fourteen EGF-like domains, one EMI domain, and undergoes alternative splicing events to produce four isoforms. The gene encoding MEGF11 maps to human chromosome 15, which houses over 700 genes and comprises nearly 3% of the human genome. Angelman syndrome, Prader-Willi syndrome, Tay-Sachs disease and Marfan syndrome are all associated with defects in chromosome 15-localized genes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MEGF11 (human) mapping to 15q22.31; Megf11 (mouse) mapping to 9 C.

SOURCE

MEGF11 (D-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of MEGF11 of human origin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

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-164980 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MEGF11 (D-14) is recommended for detection of MEGF11 of mouse, rat and 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); non cross-reactive with MEGF10.

MEGF11 (D-14) is also recommended for detection of MEGF11 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for MEGF11 siRNA (h): sc-89997, MEGF11 siRNA (m): sc-149361, MEGF11 shRNA Plasmid (h): sc-89997-SH, MEGF11 shRNA Plasmid (m): sc-149361-SH, MEGF11 shRNA (h) Lentiviral Particles: sc-89997-V and MEGF11 shRNA (m) Lentiviral Particles: sc-149361-V.

Molecular Weight of MEGF11 isoforms: 111/102/91/15 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.

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.