MFAP4 (D-14): sc-160512



The Power to Question

BACKGROUND

Microfibrils are an important component of the extracellular matrix of many tissues and can either associate with or without elastin. Several microfibril associated proteins (MFAPs) have been cloned, including MFAP1, MFAP3 and MFAP4. The MFAP1 and MFAP3 genes are localized near the fibrillin genes FBN1 and FBN2, respectively. Mutations in FBN1 are linked to Marfan syndrome. Mutations in FBN2 have been linked to congenital contractural arachnodactyly. This suggests roles for MFAP1 and MFAP3 in heritable diseases affecting microfibrils. Deletion of MFAP4 was found in 30 of 31 patients with Smith-Magenis syndrome (SMS), a clinically recognizable multiple congenital anomaly/mental retardation syndrome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MFAP4 (human) mapping to 17p11.2; Mfap4 (mouse) mapping to 11 B2.

SOURCE

MFAP4 (D-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of MFAP4 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 lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-160512 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MFAP4 (D-14) is recommended for detection of MFAP4 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 MFAP1 or MFAP3.

MFAP4 (D-14) is also recommended for detection of MFAP4 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for MFAP4 siRNA (h): sc-94198, MFAP4 siRNA (m): sc-149403, MFAP4 shRNA Plasmid (h): sc-94198-SH, MFAP4 shRNA Plasmid (m): sc-149403-SH, MFAP4 shRNA (h) Lentiviral Particles: sc-94198-V and MFAP4 shRNA (m) Lentiviral Particles: sc-149403-V.

Molecular Weight of MFAP4: 29 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.



Try **MFAP4 (A-9): sc-398438**, our highly recommended monoclonal alternative to MFAP4 (D-14).

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