

Fibulin-7 (F-13): sc-137477

BACKGROUND

Fibulin proteins contribute to normal development of elastic fiber systems in various types of organs that require elasticity, such as vasculature, lung and skin. Fibulin-7, also known as TM14 or FBLN7, is a 439 amino acid extracellular matrix protein that belongs to the Fibulin family. Containing two EGF-like domains and one sushi (CCP/SCR) domain, Fibulin-7 exists as four alternatively spliced isoforms. Fibulin-7 is considered an adhesion protein that interacts with extracellular matrix molecules in developing teeth, and may be involved in differentiation and maintenance of odontoblasts as well as in dentin formation. Fibulin-7 is posttranslationally glycosylated with N-linked oligosaccharides and interacts with heparin, fibronectin, fibulin-1 and DSP (dentin sialophosphoprotein). Fibulin-7 is encoded by a gene located on human chromosome 2, which consists of 237 million bases, encodes over 1,400 genes and makes up approximately 8% of the human genome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FBLN7 (human) mapping to 2q13; Fbln7 (mouse) mapping to 2 F1.

SOURCE

Fibulin-7 (F-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Fibulin-7 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-137477 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Fibulin-7 (F-13) is recommended for detection of Fibulin-7 isoforms 1-4 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 other Fibulin family members.

Fibulin-7 (F-13) is also recommended for detection of Fibulin-7 isoforms 1-4 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Fibulin-7 siRNA (h): sc-94915, Fibulin-7 siRNA (m): sc-145177, Fibulin-7 shRNA Plasmid (h): sc-94915-SH, Fibulin-7 shRNA Plasmid (m): sc-145177-SH, Fibulin-7 shRNA (h) Lentiviral Particles: sc-94915-V and Fibulin-7 shRNA (m) Lentiviral Particles: sc-145177-V.

Molecular Weight of Fibulin-7: 48 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.