

Fibulin-4 (N-12): sc-79241

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-4, also known as EFEMP2 (EGF-containing fibulin-like extracellular matrix protein 2), MBP1 or UPH1 is a 443 amino acid secreted protein that contains 6 EGF-like calcium-binding domains and belongs to the Fibulin family. Expressed ubiquitously with highest expression in heart, Fibulin-4 is essential for connective tissue development and elastic fiber formation, and may also play an important role in vascular patterning and collagen biosynthesis. Defects in the gene encoding Fibulin-4 are associated with autosomal recessive cutis laxa type I (CL type I), a connective tissue disorder that is inherited in both an autosomal dominant and an autosomal recessive manner and is characterized by inelastic tissue in all affected areas of the body.

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CHROMOSOMAL LOCATION

Genetic locus: EFEMP2 (human) mapping to 11q13.1; Efemp2 (mouse) mapping to 19 A.

SOURCE

Fibulin-4 (N-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Fibulin-4 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-79241 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Fibulin-4 (N-12) is recommended for detection of Fibulin-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).

Fibulin-4 (N-12) is also recommended for detection of Fibulin-4 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Fibulin-4 siRNA (h): sc-75017, Fibulin-4 siRNA (m): sc-75018, Fibulin-4 shRNA Plasmid (h): sc-75017-SH, Fibulin-4 shRNA Plasmid (m): sc-75018-SH, Fibulin-4 shRNA (h) Lentiviral Particles: sc-75017-V and Fibulin-4 shRNA (m) Lentiviral Particles: sc-75018-V.

Molecular Weight of Fibulin-4: 61 kDa.

Positive Controls: mouse skin extract: sc-364251.

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.



Try **Fibulin-4 (2C8): sc-293492**, our highly recommended monoclonal alternative to Fibulin-4 (N-12).