

EMILIN-1 (N-17): sc-27568

BACKGROUND

EMILIN (elastin microfibril interface located protein) is an extracellular matrix glycoprotein that localizes to sites where elastin and microfibrils are in proximity. EMILIN protein is abundant in elastin-rich tissues such as blood vessels, skin, heart, and lung. EMILIN-1 influences placenta formation and initial organogenesis and a later role in interstitial connective tissue.

REFERENCES

1. Doliana, R., et al. 1999. EMILIN, a component of the elastic fiber and a new member of the C1q/tumor necrosis factor superfamily of proteins. *J. Biol. Chem.* 274: 16773-16781.
2. Mongiat, M., et al. 2000. Self-assembly and supramolecular organization of EMILIN. *J. Biol. Chem.* 275: 25471-25480.
3. Braghetta, P., et al. 2002. Expression of the EMILIN-1 gene during mouse development. *Matrix Biol.* 21: 603-609.
4. Spessotto, P., et al. 2003. β 1 Integrin-dependent cell adhesion to EMILIN-1 is mediated by the gC1q domain. *J. Biol. Chem.* 278: 6160-6167.
5. Verdone, G., et al. 2004. Sequence-specific backbone NMR assignments for the C-terminal globular domain of EMILIN-1. *J. Biomol. NMR* 29: 91-92.
6. Zanetti, M., et al. 2004. EMILIN-1 deficiency induces elastogenesis and vascular cell defects. *Mol. Cell. Biol.* 24: 638-650.
7. LocusLink Report (LocusID: 11117). <http://www.ncbi.nlm.nih.gov/LocusLink/>

CHROMOSOMAL LOCATION

Genetic locus: EMILIN1 (human) mapping to 2p23.3; Emilin1 (mouse) mapping to 5 B1.

SOURCE

EMILIN-1 (N-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of EMILIN-1 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-27568 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

PROTOCOLS

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

APPLICATIONS

EMILIN-1 (N-17) is recommended for detection of EMILIN-1 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).

EMILIN-1 (N-17) is also recommended for detection of EMILIN-1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for EMILIN-1 siRNA (h): sc-60016, EMILIN-1 siRNA (m): sc-60017, EMILIN-1 shRNA Plasmid (h): sc-60016-SH, EMILIN-1 shRNA Plasmid (m): sc-60017-SH, EMILIN-1 shRNA (h) Lentiviral Particles: sc-60016-V and EMILIN-1 shRNA (m) Lentiviral Particles: sc-60017-V.

Molecular Weight of EMILIN-1: 115 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.

SELECT PRODUCT CITATIONS

1. Conrotto, P., et al. 2008. Identification of new accessible tumor antigens in human colon cancer by *ex vivo* protein biotinylation and comparative mass spectrometry analysis. *Int. J. Cancer* 123: 2856-2864.



Try **EMILIN-1 (C-6): sc-365737**, our highly recommended monoclonal alternative to EMILIN-1 (N-17).