

# EMILIN-1 (H-80): sc-50430

## 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.  $\beta$  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.

## CHROMOSOMAL LOCATION

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

## SOURCE

EMILIN-1 (H-80) is a rabbit polyclonal antibody raised against amino acids 187-266 mapping within an internal region of EMILIN-1 of human origin.

## PRODUCT

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

## APPLICATIONS

EMILIN-1 (H-80) 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), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (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 (H-80) is also recommended for detection of EMILIN-1 in additional species, including canine, bovine and porcine.

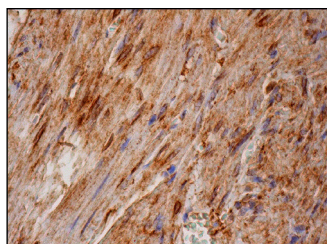
Suitable for use as control antibody for EMILIN-1 siRNA (h): sc-60016, EMILIN-1 siRNA (m): sc-60017, EMILIN-1 shRNA Plasmid (h): sc-60016-SH, EMILIN-1 shRNA Plasmid (m): sc-60017-SH, EMILIN-1 shRNA (h) Lentiviral Particles: sc-60016-V and EMILIN-1 shRNA (m) Lentiviral Particles: sc-60017-V.

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 goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker<sup>™</sup> compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz<sup>™</sup> Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz<sup>™</sup>: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

## DATA



EMILIN-1 (H-80): sc-50430. Immunoperoxidase staining of formalin fixed, paraffin-embedded human smooth muscle tissue showing cytoplasmic and perinuclear staining of smooth muscle cells.

## SELECT PRODUCT CITATIONS

1. Hamdi, H., et al. 2011. Epicardial adipose stem cell sheets results in greater post-infarction survival than intramyocardial injections. *Cardiovasc. Res.* 91: 483-491.
2. Angel, P.M., et al. 2011. Networked-based characterization of extracellular matrix proteins from adult mouse pulmonary and aortic valves. *J. Proteome Res.* 10: 812-823.

## 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.

**MONOS**  
Satisfaction  
Guaranteed

Try **EMILIN-1 (C-6): sc-365737**, our highly recommended monoclonal alternative to EMILIN-1 (H-80).