## SANTA CRUZ BIOTECHNOLOGY, INC.

# Matrilin-3 (E-18): sc-27928



## BACKGROUND

The matrilin family of secreted extracellular matrix proteins is comprised of Matrilin-1 through Matrilin-4. Matrilin-1 is a homotrimer that binds to collagen and is a component of the extracellular matrix of nonarticular cartilage. It is secreted primarily by chondrocytes in a characteristic spatial, temporal and developmental stage-specific pattern during skeletogenesis. Matrilin-2 is a secreted protein involved in matrix assembly. Matrilin-3 is a secreted protein expressed solely in cartilaginous tissues. It is important in the extracellular matrix of cartilage and in the formation of extracellular filamentous networks. Matrilin-4, expressed in embryonic kidney, lung and placenta, is a secreted protein important to the extracellular matrix of cartilage.

## REFERENCES

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- Strusberg, I., et al. 2002. Association analysis of genotypic frequencies of matrilin-1 gene in patients with osteoarthritis. Clin. Exp. Rheumatol. 20: 543-545.
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## CHROMOSOMAL LOCATION

Genetic locus: MATN3 (human) mapping to 2p24.1; Matn3 (mouse) mapping to 12 A1.1.

#### SOURCE

Matrilin-3 (E-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Matrilin-3 of human origin.

## PRODUCT

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

Blocking peptide available for competition studies, sc-27928 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## **APPLICATIONS**

Matrilin-3 (E-18) is recommended for detection of Matrilin-3 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).

Matrilin-3 (E-18) is also recommended for detection of Matrilin-3 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for Matrilin-3 siRNA (h): sc-106205, Matrilin-3 siRNA (m): sc-149297, Matrilin-3 shRNA Plasmid (h): sc-106205-SH, Matrilin-3 shRNA Plasmid (m): sc-149297-SH, Matrilin-3 shRNA (h) Lentiviral Particles: sc-106205-V and Matrilin-3 shRNA (m) Lentiviral Particles: sc-149297-V.

Positive Controls: HeLa whole cell lysate: sc-2200.

## **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) Immunofluo-rescence: 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.

## PROTOCOLS

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