SANTA CRUZ BIOTECHNOLOGY, INC.

Matrilin-4 (H-145): sc-98294



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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CHROMOSOMAL LOCATION

Genetic locus: MATN4 (human) mapping to 20q13.12; Matn4 (mouse) mapping to 2 H3.

SOURCE

Matrilin-4 (H-145) is a rabbit polyclonal antibody raised against amino acids 265-409 mapping within an internal region of Matrilin-4 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Matrilin-4 (H-145) is recommended for detection of Matrilin-4 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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-4 (H-145) is also recommended for detection of Matrilin-4 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Matrilin-4 siRNA (h): sc-106206, Matrilin-4 siRNA (m): sc-149298, Matrilin-4 shRNA Plasmid (h): sc-106206-SH, Matrilin-4 shRNA Plasmid (m): sc-149298-SH, Matrilin-4 shRNA (h) Lentiviral Particles: sc-106206-V and Matrilin-4 shRNA (m) Lentiviral Particles: sc-149298-V.

Molecular Weight of Matrilin-4: 68 kDa.

Positive Controls: Matrilin-4 (h): 293T Lysate: sc-112516.

DATA



Matrilin-4 (H-145): sc-98294. Western blot analysis of Matrilin-4 expression in non-transfected: sc-117752 (A) and human Matrilin-4 transfected: sc-112516 (B) 293T whole cell lysates.

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.

MONOS Satisfation Guaranteed Try Matrilin-4 (F-2): sc-374653 or Matrilin-4 (B-1): sc-374652, our highly recommended monoclonal alternatives to Matrilin-4 (H-145).