

ECM1 (H-300): sc-135032

BACKGROUND

ECM1 (extracellular matrix protein 1), also known as secretory component p85, is a secreted glycoprotein that is essential for the proper structure and function of the skin. It is widely expressed and localizes to the extracellular matrix. ECM1 binds to a variety of extracellular matrix components, including Perlecan, fibulin and matrix metalloproteinase-9 (MMP-9), and participates in the structural organization of the dermis. In addition, ECM1 enhances the association of Collagen Type IV with Laminin 332 suggesting that it is a key player in interstitial dermis and the dermal-epidermal junction. Mutations in the gene encoding ECM1 result in the autosomal recessive disorder lipoid proteinosis (LiP). LiP is characterized by hyalinization of the dermis and reduplication of the basement membrane of the skin. LiP patients exhibit thickening of the skin and mucosae. Four splice variants (known as ECM1 α -ECM1 δ) exist for ECM1.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ECM1 (human) mapping to 1q21.3; Ecm1 (mouse) mapping to 3 F2.1.

SOURCE

ECM1 (H-300) is a rabbit polyclonal antibody raised against amino acids 161-460 mapping within an internal region of ECM1 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.

APPLICATIONS

ECM1 (H-300) is recommended for detection of ECM1 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).

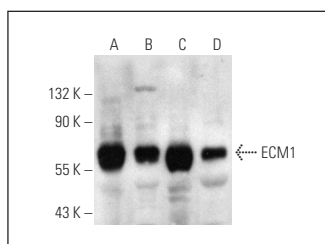
ECM1 (H-300) is also recommended for detection of ECM1 in additional species, including canine.

Suitable for use as control antibody for ECM1 siRNA (h): sc-62255, ECM1 siRNA (m): sc-62256, ECM1 shRNA Plasmid (h): sc-62255-SH, ECM1 shRNA Plasmid (m): sc-62256-SH, ECM1 shRNA (h) Lentiviral Particles: sc-62255-V and ECM1 shRNA (m) Lentiviral Particles: sc-62256-V.

Molecular Weight of ECM1: 85 kDa.

Positive Controls: A-375 cell lysate: sc-3811, mouse kidney extract: sc-2255 or rat kidney extract: sc-2394.

DATA



ECM1 (H-300): sc-135032. Western blot analysis of ECM1 expression in mouse kidney (A), mouse pancreas (B), rat kidney (C) and rat pancreas (D) tissue extracts.

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 **ECM1 (C-12): sc-365946** or **ECM1 (F-1): sc-365335**, our highly recommended monoclonal alternatives to ECM1 (H-300).