

COL3A1 (H-300): sc-28888

BACKGROUND

The extensive family of COL gene products (collagens) is composed of several chain types, including fibril-forming interstitial collagens (types I, II, III and V) and basement membrane collagens (type IV), each type containing multiple isoforms. Collagens are fibrous, extracellular matrix proteins with high tensile strength and are the major components of connective tissue, such as tendons and cartilage. All collagens contain a triple helix domain and frequently show lateral self-association in order to form complex connective tissues. Several collagens also play a role in cell adhesion, important for maintaining normal tissue architecture and function.

CHROMOSOMAL LOCATION

Genetic locus: COL3A1 (human) mapping to 2q32.2; Col3a1 (mouse) mapping to 1 C1.1.

SOURCE

COL3A1 (H-300) is a rabbit polyclonal antibody raised against amino acids 901-1200 mapping near the C-terminus of Collagen α 1 Type III 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

COL3A1 (H-300) is recommended for detection of Collagen α 1 Type III 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).

Suitable for use as control antibody for COL3A1 siRNA (h): sc-43062, COL3A1 siRNA (m): sc-43063, COL3A1 shRNA Plasmid (h): sc-43062-SH, COL3A1 shRNA Plasmid (m): sc-43063-SH, COL3A1 shRNA (h) Lentiviral Particles: sc-43062-V and COL3A1 shRNA (m) Lentiviral Particles: sc-43063-V.

Molecular Weight of COL3A1 isoforms: 110/140 kDa.

Positive Controls: COL3A1 (h): 293T Lysate: sc-114750, CCD-1064Sk cell lysate: sc-2263 or Hs68 cell lysate: sc-2230.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

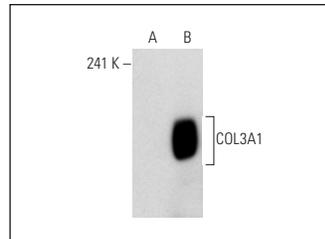
PROTOCOLS

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

RESEARCH USE

For research use only, not for use in diagnostic procedures.

DATA



COL3A1 (H-300): sc-28888. Western blot analysis of COL3A1 expression in non-transfected: sc-117752 (A) and human COL3A1 transfected: sc-114750 (B) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

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- Gay-Jordi, G., et al. 2013. Losartan prevents heart fibrosis induced by long-term intensive exercise in an animal model. *PLoS ONE* 8: e55427.
- Attia-Vigneau, J., et al. 2014. Regeneration of human dermis by a multi-headed peptide. *J. Invest. Dermatol.* 134: 58-67.
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Try **COL3A1 (B-10): sc-271249** or **COL3A1 (C-6): sc-514601**, our highly recommended monoclonal alternatives to COL3A1 (H-300). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **COL3A1 (B-10): sc-271249**.