

COL1A2 (H-70): sc-28655

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.

REFERENCES

1. Bateman, J.F., et al. 1996. Collagen superfamily. In Comper, W.D., ed., Extracellular Matrix, Vol. 2: Molecular Components and Interactions. Amsterdam: Harwood Academic Publishers, 22-67.
2. McCarthy, J.B., et al. 1996. Cell adhesion to collagenous matrices. Biopolymers 40: 371-381.
3. Myers, L.K., et al. 1997. Collagen-induced arthritis, an animal model of autoimmunity. Life Sci. 61: 1861-1878.

CHROMOSOMAL LOCATION

Genetic locus: COL1A2 (human) mapping to 7q21.3.

SOURCE

COL1A2 (H-70) is a rabbit polyclonal antibody raised against amino acids 1021-1090 mapping within an internal region of Collagen $\alpha 2$ Type I 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

COL1A2 (H-70) is recommended for detection of Collagen $\alpha 2$ Type I of 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).

COL1A2 (H-70) is also recommended for detection of Collagen $\alpha 2$ Type I in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for COL1A2 siRNA (h): sc-72156, COL1A2 shRNA Plasmid (h): sc-72156-SH and COL1A2 shRNA (h) Lentiviral Particles: sc-72156-V.

Molecular Weight of COL1A2 precursor: 130-140 kDa.

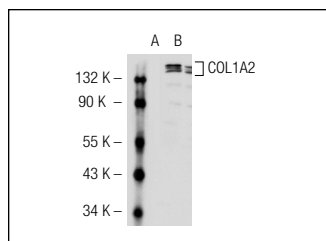
Molecular Weight of mature COL1A2: 70-90 kDa.

Positive Controls: Hs68 cell lysate: sc-2230, CCD-1064Sk cell lysate: sc-2263 or COL1A2 (h): 293T Lysate: sc-116187.

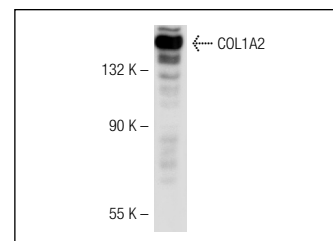
RECOMMENDED SECONDARY REAGENTS

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[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (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) 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[™] Mounting Medium: sc-24941.

DATA



COL1A2 (H-70): sc-28655. Western blot analysis of COL1A2 expression in non-transfected: sc-117752 (A) and human COL1A2 transfected: sc-116187 (B) 293T whole cell lysates.



COL1A2 (H-70): sc-28655. Western blot analysis of COL1A2 expression in Hs68 whole cell lysate.

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
Satisfaction
Guaranteed

Try **COL1A2 (E-6): sc-393573** or **COL1A2 (H-9): sc-376350**, our highly recommended monoclonal alternatives to COL1A2 (H-70). Also, for AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647 conjugates, see **COL1A2 (E-6): sc-393573**.