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

CHROMOSOMAL LOCATION

SOURCE
COL7A1 (4D2) is a mouse monoclonal antibody raised against SDS-insoluble proteins of normal skin of human origin.

PRODUCT
Each vial contains 200 µg IgGκ kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

COL7A1 (4D2) is available conjugated to agarose (sc-33710 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-33710 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-33710 PE), fluorescein (sc-33710 FITC), Alexa Fluor® 488 (sc-33710 AF488), Alexa Fluor® 546 (sc-33710 AF546), Alexa Fluor® 594 (sc-33710 AF594) or Alexa Fluor® 647 (sc-33710 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-33710 AF680) or Alexa Fluor® 790 (sc-33710 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Applications
COL7A1 (4D2) is recommended for detection of Collagen Type VII of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for COL7A1 siRNA (h): sc-43066, COL7A1 shRNA Plasmid (h): sc-43066-SH and COL7A1 shRNA (h) Lentiviral Particles: sc-43066-V.

Molecular Weight of COL7A1: 290 kDa.

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

DATA

SELECT PRODUCT CITATIONS

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