SANTA CRUZ BIOTECHNOLOGY, INC.

COL17A1 (B1052M): sc-73625

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The extensive collagen family comprises several chain types, including fibril-forming interstitial collagens and basement membrane collagens, with each type containing multiple isoforms. Products of the COL gene family, collagens are characterized as fibrous, extracellular matrix proteins with high tensile strength that constitute the major components of connective tissues, 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. Collagen Type XVII, also designated BP180, represents a type II transmembrane, epithelial adhesion molecule that plays a role in cell migration and differentiation. The full length Collagen Type XVII protein is expressed in hemidesmosomes of keratinocytes. Proteolytic shedding of Collagen Type XVII results in a species in the extracellular matrix, and this process may be mediated by a disintegrin and metalloprotease (ADAM) family member. The BPAG2 gene, which encodes the Collagen Type XVII protein, maps to human chromosome 10q25.1. Mutations in this gene result in Bullous pemphigoid, an inflammatory subepidermal blistering skin disease associated with an IgG autoimmune response to Collagen Type XVII.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: COL17A1 (human) mapping to 10q24.33.

SOURCE

COL17A1 (B1052M) is a mouse monoclonal antibody raised against the intracellular region corresponding to amino acids 1-490 of Collagen α1 Type XVII of human origin.

PRODUCT

Each vial contains 100 µg IgG_{2a} in 1.0 ml TBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

COL17A1 (B1052M) is recommended for detection of Collagen α1 Type XVII of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000).

Suitable for use as control antibody for COL17A1 siRNA (h): sc-43070, COL17A1 shRNA Plasmid (h): sc-43070-SH and COL17A1 shRNA (h) Lentiviral Particles: sc-43070-V.

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 for detailed protocols and support products.