

## COL5A1/2 (1.BB.755): sc-70868

### 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

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2. McCarthy, J.B., Vachhani, B. and Iida, J. 1996. Cell adhesion to collagenous matrices. *Biopolymers* 40: 371-381.
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4. Cremer, M.A., Rosloniec, E.F. and Kang, A.H. 1998. The cartilage collagens: a review of their structure, organization and role in the pathogenesis of experimental arthritis in animals and in human rheumatic disease. *J. Mol. Med.* 76: 275-288.
5. Boskey, A.L., Wright, T.M. and Blank, R.D. 1999. Collagen and bone strength. *J. Bone Miner. Res.* 14: 330-335.
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### CHROMOSOMAL LOCATION

Genetic locus: COL5A1 (human) mapping to 9q34.3, COL5A2 (human) mapping to 2q32.2.

### SOURCE

COL5A1/2 (1.BB.755) is a mouse monoclonal antibody raised against full length native Collagen Type V of human origin.

### PRODUCT

Each vial contains 100 µg IgM in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

### 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.

### APPLICATIONS

COL5A1/2 (1.BB.755) is recommended for detection of native as well as heat denatured Collagen Type V of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500); non cross-reactive with Collagen Types I, II, III and IV.

Molecular Weight of COL5A1/2 isoforms: 140/220 kDa

Positive Controls: CCD-1064Sk cell lysate: sc-2263 or Hs68 cell lysate: sc-2230.

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.