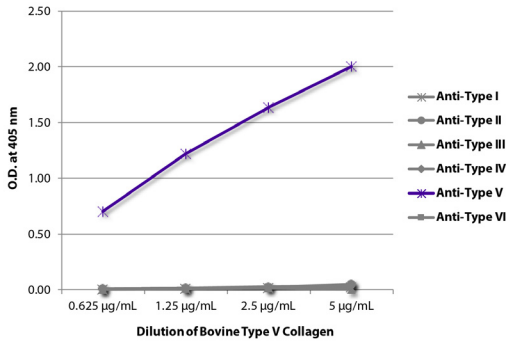
SouthernBiotech

Bovine Type V Collagen

Cat. No.	Format	Size
1280-02S	Purified Protein - Solution	0.25 mg



ELISA plate was coated with serially diluted Bovine Type V Collagen (SB Cat. No. 1280-02S). Purified collagen was detected with Goat Anti-Type I Collagen-UNLB (SB Cat. No. 1310-01), Goat Anti-Type II Collagen-UNLB (SB Cat. No. 1320-01), Goat Anti-Type III Collagen-UNLB (SB Cat. No. 1330-01), Goat Anti-Type IV Collagen-UNLB (SB Cat. No. 1340-01), Goat Anti-Type V Collagen-UNLB (SB Cat. No. 1350-01), and Goat Anti-Type VI Collagen-UNLB (SB Cat. No. 1360-01) followed by Mouse Anti-Goat IgG Fc-HRP (SB Cat. No. 6158-05).

Overview

Source Placental villi
Purification Controlled and limited pepsin digestion followed by selective salt precipitation
Purity > 90% by SDS-PAGE
Alternate Name(s) COL5A1, COL5A2, COL5A3

Description

Collagen is the main structural protein in the extracellular space and is the most abundant protein in the ECM. Collagens are divided into two classes - fibril (types I, II, III, V) and non-fibril (types IV, VI). Type V collagen is a minor connective tissue component of nearly ubiquitous distribution. Type V collagen mutations are associated with Ehlers-Danlos syndrome. Type V collagen is broadly expressed as a two α1(V) chains and one α2(V) chain heterotrimer but also as a α1(V), α2(V), and α3(V) heterotrimer in pancreatic islets, adipose tissue, and skeletal muscle.

Applications

ELISA – Quality tested
SDS-PAGE – Quality tested
SPR – Reported in literature [1]
Coating Material for –
Adhesion Studies – Reported in literature [1]

Handling and Storage

- The purified protein is supplied as a solution of 0.25 mg collagen in 0.5 mL of 500 mM acetic acid. Store at 2-8°C.
- Reagent is stable for the period shown on the label if stored as directed.

Warning

Reagent contains acetic acid. Please refer to product specific SDS.

References

1. House-Pompeo K, Boles JO, Höök M. Characterization of bacterial adhesin interactions with extracellular matrix components utilizing biosensor technology. Methods. 1994;6:134-42. (SPR, Coat, Adhesion Studies)

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