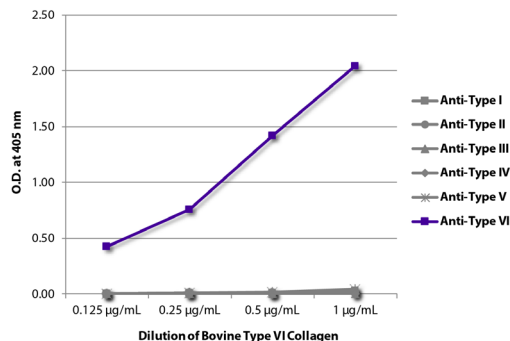




## Bovine Type VI Collagen

| Cat. No. | Format                         | Size    |
|----------|--------------------------------|---------|
| 1300-02  | Purified Protein - Lyophilized | 0.1 mg  |
| 1300-02S | Purified Protein - Solution    | 0.25 mg |



ELISA plate was coated with serially diluted Bovine Type VI Collagen (SB Cat. No. 1300-02). Purified collagen was detected with Goat Anti-Type I Collagen-BIOT (SB Cat. No. 1310-08), Goat Anti-Type II Collagen-BIOT (SB Cat. No. 1320-08), Goat Anti-Type III Collagen-BIOT (SB Cat. No. 1330-08), Goat Anti-Type IV Collagen-BIOT (SB Cat. No. 1340-08), Goat Anti-Type V Collagen-BIOT (SB Cat. No. 1350-08), and Goat Anti-Type VI Collagen-BIOT (SB Cat. No. 1360-08) followed by Streptavidin-HRP (SB Cat. No. 7100-05).

### Overview

|                          |  |
|--------------------------|--|
| <b>Source</b>            | Placental villi  |
| <b>Purification</b>      | Controlled and limited pepsin digestion followed by selective salt precipitation |
| <b>Purity</b>            | > 90% by SDS-PAGE  |
| <b>Alternate Name(s)</b> | COL6A1, COL6A2, COL6A3, COL6A4, COL6A5, COL6A6                                   |

### 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 VI collagen is one of the major components of skeletal muscle and white adipose tissue extracellular matrix and is abundantly expressed by skin fibroblasts. Type VI collagen mutations are associated with Bethlem myopathy and Ullrich congenital muscular dystrophy. Type VI collagen consists of  $\alpha 1(VI)$ ,  $\alpha 2(VI)$ , and  $\alpha 3(VI)$  chains as well as the more recently identified  $\alpha 4(VI)$ ,  $\alpha 5(VI)$ , and  $\alpha 6(VI)$  chains with  $\alpha 4(VI)$  being nonfunctional in humans.

### Applications

ELISA – Quality tested  
 SDS-PAGE – Quality tested  
 SPR – Reported in literature <sup>1</sup>  
 Coating Material for –  
 Adhesion Studies – Reported in literature <sup>1</sup>

### 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 or 0.1 mg collagen lyophilized from 500 mM acetic acid. Store at 2-8°C.
- Reconstitute lyophilized protein in 500 mM acetic acid.
- Reagents are stable for the period shown on the label if stored as directed.

### Warning

Reagents contain acetic acid. Please refer to product specific SDS.

**For Research Use Only. Not for Diagnostic or Therapeutic Use.**

## References

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

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