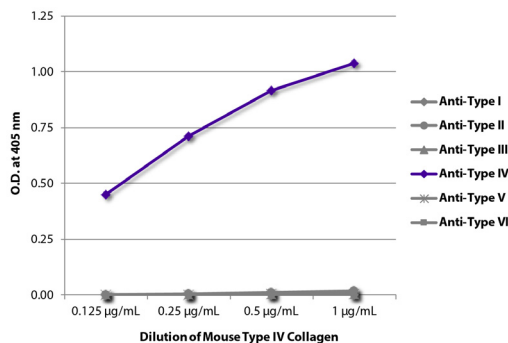




Mouse Type IV Collagen

Cat. No.	Format	Size
1250-04S	Purified Protein - Solution	0.5 mg



ELISA plate was coated with serially diluted Mouse Type IV Collagen (SB Cat. No. 1250-04S). 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

Source	Engelbreth-Holm-Swarm (EHS) sarcoma
Purification	Controlled and limited pepsin digestion followed by selective salt precipitation
Purity	> 90% by SDS-PAGE
Alternate Name(s)	Col4a1, Col4a2, Col4a3, Col4a4, Col4a5, Col4a6

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 IV collagen is primarily expressed in the basal lamina and therefore constitutes a portion of the basement membrane. Type IV collagen mutations are associated with Alport syndrome and the $\alpha 3(IV)$ chain is thought to be the antigen implicated in Goodpasture's syndrome. Type IV collagen is comprised of six isomeric chains designated $\alpha 1(IV)$ to $\alpha 6(IV)$.

Applications

ELISA – Quality tested
 SDS-PAGE – Quality tested
 Microarray – Reported in literature ¹
 Cell Culture – Reported in literature ¹
 Coating Material for –
 Adhesion Studies – Reported in literature ²
 Aggregation Studies – Reported in literature ²
 Blood Disorder Studies – Reported in literature ²

Handling and Storage

- The purified protein is supplied as a solution of 0.5 mg collagen in 1.0 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.

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

References

1. Hou L, Collier J, Natu V, Hastie TJ, Huang NF. Combinatorial extracellular matrix microenvironments promote survival and phenotype of human induced pluripotent stem cell-derived endothelial cells in hypoxia. *Acta Biomater.* 2016;44:188-99. (Microarray, Cell Culture)
2. Slobodianuk TL, Kochelek C, Foeckler J, Kalloway S, Weiler H, Flood VH. Defective collagen binding and increased bleeding in a murine model of von Willebrand disease affecting collagen IV binding. *J Thromb Haemost.* 2019;17:63-71. (ELISA, Coating, Blood Disorder Studies, Adhesion Studies, Aggregation Studies)