

Monoclonal Antibody to Collagen type VI - Purified

Alternate names: COL6A1

Catalog No.: AF6210

Quantity: 0.1 mg

Concentration: 0.5 mg/ml

Background: Collagens are highly conserved throughout evolution and are characterized by an uninterrupted "Glycine-X-Y" triplet repeat that is a necessary part of the triple helical structure. For these reasons it is often extremely difficult to generate antibodies with specificities to collagens. The development of type specific antibodies is dependent on NON-DENATURED three-dimensional epitopes. Collagens are extensively purified for immunization from human and bovine placenta and cartilage by limited pepsin digestion and selective salt precipitation. This preparation results in a native conformation of the protein. Antibodies are isolated from rabbit antiserum and are extensively cross-adsorbed by immunoaffinity purification to produce 'type' specific antibodies. Greatly diminished reactivity and selectivity of these antibodies will result if denaturing and reducing conditions of SDS-PAGE and immunoblotting are used.

Uniprot ID: [P12109](#)

NCBI: [NP_001839](#)

GeneID: [1291](#)

Host / Isotype: Mouse / IgG1

Recommended Isotype Controls: SM10P (for use in human samples), AM03095PU-N

Clone: VI-26

Format: **State:** Liquid purified IgG fraction
Buffer System: 0.1M Sodium Phosphate buffer, pH 7.0
Stabilizers: 0.5% Protease-free BSA

Applications: **Western blot:** 10 µg/ml.
Immunohistochemistry on Frozen and Paraffin Sections: 1-10 µg/ml.
Heat induced antigen retrieval with citrat buffer, pH 6.2 using a pressure cooker was preformed. Sections were blocking using a commercially available casein solution. Signal was generated using a commercially available polymer HRP detection system and DAB. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody specifically reacts with hCL(VI). Especially it recognizes tertialy structure. It doesn't recognize Collagen VI without the structure.

Species Reactivity: **Tested:** Human and Rabbit.

Storage: Upon receipt, store undiluted (in aliquots) at -20°C.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:

1. Mayne R, Zettergren JG, Mayne PM, Bedwell NW. Isolation and partial characterization of basement membrane-like collagens from bovine thoracic aorta. *Artery*. 1980;7(4):262-80. PubMed PMID: 7213017.
2. Hesse, H. and Engvall, E. type VI Collagen. Studies on its localization, structure and biosynthetic form with monoclonal antibodies. *J. Biol. Chem.*, 259. 3955-3961, 1984.
3. Muragaki, Y. et al. Experimental study on alteration of collagen metabolism in liver fibrosis. *J. Wakayama Med. Soc.*, 36. 195-208, 1985 (In Japanese).

Pictures: Staining of FFPE Human testis parenchyma (20x and 40x) with Collagen Type VI Antibody Cat.-No AF6210 (Clone VI-26) at 2 µg/ml. Antibody positive in the cytoplasm of interstitial stromal fibroblasts.

