

Product Specification Sheet

Product: Biotin Conjugated Affinity Purified anti-Collagen Type III [Rabbit] Minimum Cross Reactivity to Type I, II, IV, V, and VI.

Code: 600-406-105

Lot # 7722

Size: 100 µg

Physical State: Liquid (sterile filtered)

Antibody Concentration: 1.1 mg/ml (by UV absorbance at 280 nm)

Label: Biotinamidocaproate N-Hydroxysuccinimide Ester (BAC)

Biotin/Protein Ratio: 10-20 BAC molecules per Rabbit IgG molecule

Buffer: 0.125M Sodium Borate, 0.075M Sodium Chloride, 0.005M EDTA; pH 8.0

Stabilizer: 10 mg/ml Bovine Serum Albumin (Immunoglobulin and Protease Free)

Preservative: 0.01% (w/v) Sodium Azide

Application(s): Anti-Collagen antibodies have been used for indirect trapping ELISA for quantitation of antigen in serum using a standard curve, for immunoprecipitation and for western blotting for highly sensitive qualitative analysis.

Recommended Dilution(s): This product was assayed by immunoblot and found to be reactive against Collagen III at a dilution of 1:5,000 to 1:10,000. This product was also assayed against 1.0 µg of Collagen III in a standard sandwich ELISA using Peroxidase Conjugated Streptavidin #S000-03 and ABTS (2,2'-azino-bis-[3-ethylbenzothiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:4,000 to 1:8,000 of the stock concentration is suggested for this product. For immunohistochemistry on frozen tissue sections dilute the product 1:50 to 1:200. Optimal titers for other applications should be determined by the researcher.

Storage Conditions: Store vial at 4° C prior to opening. This product is stable at 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage mix with an equal volume of glycerol, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Expiration date is one (1) year from date of opening product.

Purity and Specificity: This product has been prepared by immunoaffinity chromatography using immobilized antigens followed by extensive cross-adsorption against other collagens, human serum proteins and non-collagen extracellular matrix proteins to remove any unwanted specificities. Typically less than 1% cross reactivity against other types of collagens was detected by ELISA against purified standards. Some class specific anti-collagens may be specific for three-dimensional epitopes which may result in diminished reactivity with denatured collagen or formalin-fixed, paraffin embedded tissues. This antibody reacts with most mammalian Type III collagens and has negligible cross-reactivity with Type I, II, IV, V and VI collagens. Non-specific cross reaction of anti-collagen antibodies with other human serum proteins or non-collagen extracellular matrix proteins is negligible.

Immunogen: Collagen Type III from human and bovine placenta

Note: This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information..