

Product Specification Sheet

Product: Biotin Conjugated Affinity Purified Anti-Fibronectin (Human Plasma) [Rabbit] Minimum Cross Reactivity to collagens and non-collagen extracellular matrix proteins.

Code: 600-406-117

Lot # 11593

Size: 100 µg

Physical State: Liquid (sterile filtered)

Antibody Concentration: 2.5 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: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Stabilizer: 10 mg/ml Bovine Serum Albumin (BSA) IgG and Protease free

Preservative: 0.01% (w/v) Sodium Azide

Application(s): Anti-Fibronectin 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 Fibronectin at a dilution of 1:5,000 to 1:10,000. This product was also assayed against 1.0 µg of Fibronectin in a standard capture ELISA using Peroxidase Conjugated Streptavidin #S000-03 and ABTS (2,2'-azino-bis-[3-ethylbentiazoline-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 paraffin embedded tissue 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 for several weeks 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 human serum proteins and collagen and non-collagen extracellular matrix proteins to remove any unwanted specificities. Typically less than 1% cross reactivity against other extracellular matrix proteins was detected by ELISA against purified standards. This antibody reacts with human Fibronectin and has negligible cross-reactivity with Type I, II, III, IV, V or VI Collagens or Laminin. Non-specific cross reaction of anti-Fibronectin antibodies with other human serum proteins or non-Fibronectin extracellular matrix proteins is negligible.

Immunogen: Fibronectin was purified from Human plasma by binding to a denatured gelatin column followed by elution with high concentrations of arginine. The eluted material was further purified by gel filtration. Immunization occurred after single-band purity was assessed by SDS-PAGE.

Conjugation Reference: Bayer & Wilchek *Methods in Enzymology* **184**; 138-160, 1990.

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.