

Datasheet for 600-406-117**Fibronectin Antibody Biotin Conjugated****Overview**

Description:	Anti-Fibronectin (RABBIT) Antibody Biotin Conjugated - 600-406-117
Item No.:	600-406-117
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human, Mouse, Rat, Bovine, Monkey
Host Species:	Rabbit

Product Details

Background: Fibronectin antibody reacts with human fibronectin in liver, tonsil, skin and kidney. Traces of contaminating antibodies have been removed by solid-phase absorption. Biotin is amenable to conjugation to proteins for use in biochemical assays. Biotin has a very strong affinity for avidin and streptavidin; an attraction that is the strongest and most stable non-covalent interaction known.

Fibronectin is found in two forms in vertebrates: soluble and insoluble. Soluble plasma fibronectin is contained in blood plasma and constitutes a large protein component. Insoluble cellular fibronectin is a large component of the extra-cellular matrix where it is secreted by many different types of cells. Fibronectin plays a large role in wound healing and cell development.

Anti-fibronectin (rabbit) antibody is ideal for investigators in Cardiology, Cell Biology, Microbiology, and Immunology research.

Synonyms:	rabbit anti-Fibronectin antibody biotin conjugation, biotin conjugated rabbit anti-Fibronectin antibody, FN1, FN, Cold-insoluble globulin, CIG, Anastellin, Ugl-Y1, Ugl-Y2, Ugl-Y3
Host Species:	Rabbit
Conjugate:	Biotin
Clonality:	Polyclonal
Format:	IgG
F/P Ratio:	10-20

Target Details

Gene Name:	FN1
Reactivity:	Human, Mouse, Rat, Bovine, Monkey
Immunogen Type:	Native Protein
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.
Purity/Specificity:	Anti-fibronectin (rabbit) antibody 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 specificity. 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.
Relevant Links:	NCBI - AAA53376.1 NCBI - P02751.4 UniProtKB - P02751 GenelD - 2335

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-Fibronectin (rabbit) antibody was tested by WB, ELISA, and IHC. Assay by immunoblot was found to be reactive against Fibronectin at a dilution of 1:5,000 to 1:10,000. Assay against 1.0 µg of Fibronectin in a standard capture ELISA using Peroxidase Conjugated Streptavidin #S000-03 and ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000 - 1:20,000
IHC:	1:50 - 1:200
IP:	1:100

WB: 1:500 - 1:5,000

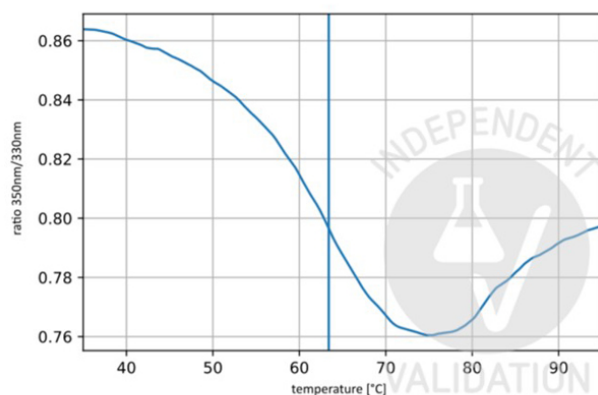
Formulation

Physical State:	Lyophilized
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	100 μ L
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

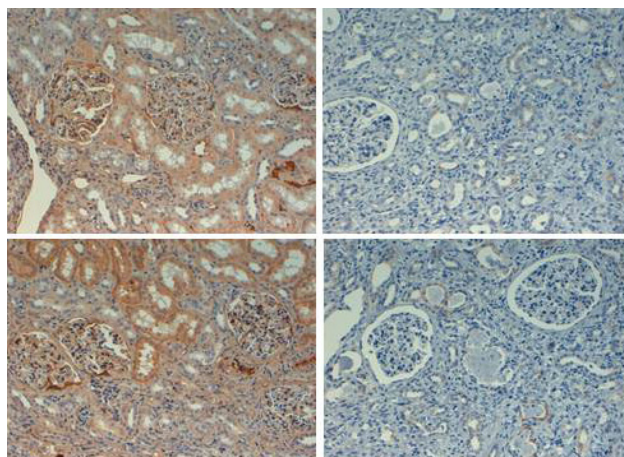
Images



Figure

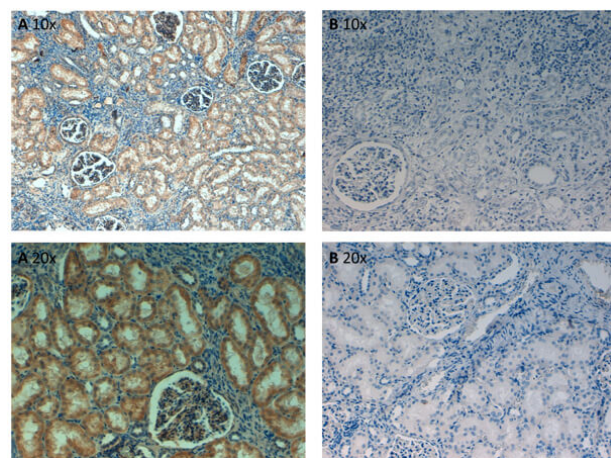
Unfolding profile of Biotin Conjugated Rabbit Anti-Fibronectin Antibody.

The fluorescence signal is plotted against temperature. The vertical line indicates the T_i at 63.4°C. Independently Validated by antibodies-online GmbH (p/n ABIN5596762) courtesy of NanoTemper Technologies.



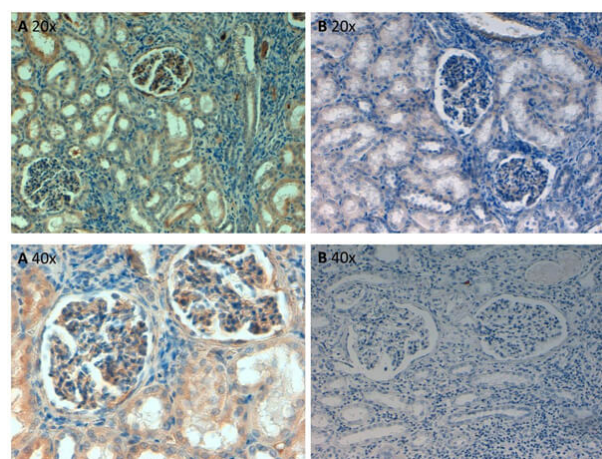
Immunohistochemistry

Immunohistochemistry with rabbit anti fibronectin biotin conjugated at 20X with negative controls (right). Tissue: kidney. Fixation: FFPE buffered formalin 10% conc. Antigen retrieval: Heat, Citrate pH 6.2. Pressure Cooker (top) or EDTA pH 9.5 Pressure Cooker (bottom). Primary antibody: 2ug/ml for 1 hour @ room T. Secondary antibody: Streptav. Conj. HRP 10 ug/ml circa 45 min. @ room T. Staining: antibody as precipitated red signal with a hematoxylin purple nuclear counterstain.



Immunohistochemistry

Immunohistochemistry of Rabbit Anti-Fibronectin Antibody. Tissue: human kidney at pH9 at 20x and 40x. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Fibronectin antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Fibronectin is cytoplasmic. Staining: Fibronectin as precipitated brown signal (A) with purple nuclear counterstain. With corresponding negative control (B).



Immunohistochemistry

Immunohistochemistry of Rabbit Anti-Fibronectin Antibody. Tissue: human kidney at pH6 at 20x and 40x. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Fibronectin antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Fibronectin is cytoplasmic. Staining: Fibronectin as precipitated brown signal (A) with purple nuclear counterstain. With corresponding negative control (B).

Disclaimer

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. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.