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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 ammenable 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 • GeneID - 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 µL
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

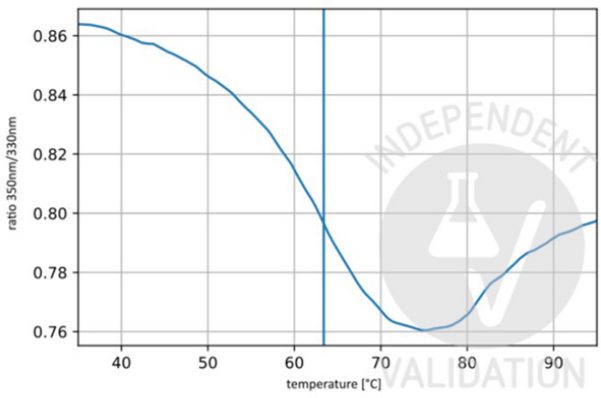
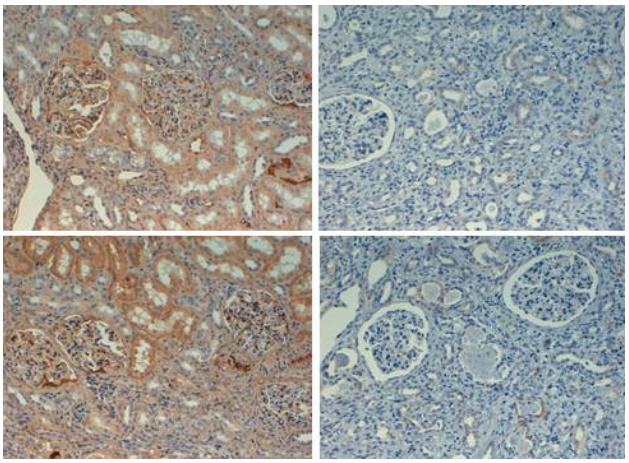
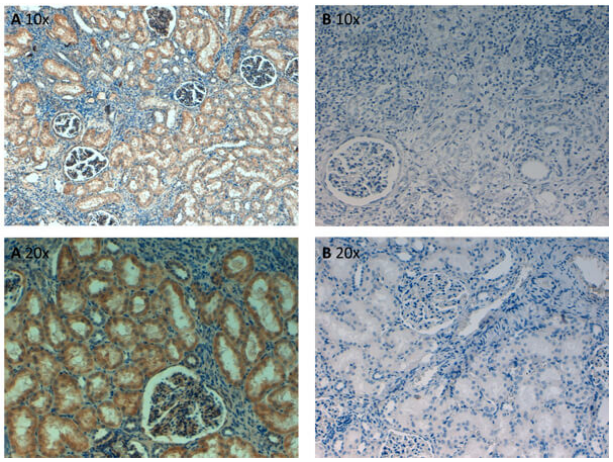


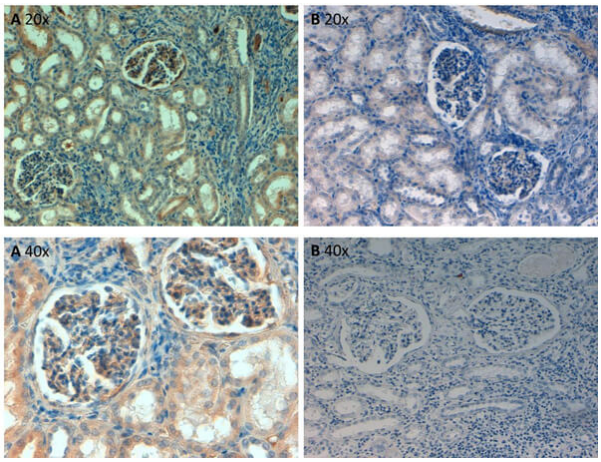
Figure
Unfolding profile of Biotin Conjugated Rabbit Anti-Fibronectin Antibody.
The fluorescence signal is plotted against temperature. The vertical line indicates the Ti at 63.4°C. Independently Validated by antibodies-online GmbH (p/n ABIN5596762) courtesy of NanoTemper Technologies.



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).

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