



Anti-Fibronectin (RABBIT) Antibody Biotin Conjugated - 600-406-117

Code: 600-406-117

Size: 100 µg

Product Description: Anti-Fibronectin (RABBIT) Antibody Biotin Conjugated - 600-406-117

Concentration: 1.0 mg/ml by UV absorbance at 280 nm

PhysicalState: Lyophilized

Label	Biotin
Host	Rabbit
Gene Name	FN1
Species Reactivity	human, mouse, rat, bovine, monkey
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Reconstitution Volume	100 µL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Stabilizer	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Preservative	0.01% (w/v) Sodium Azide
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.
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
Application Note	Anti-fibronectin (rabbit) antibody 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-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 paraffin embedded tissue dilute the product 1:50 to 1:200.
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.
Purity And 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.
Assay Dilutions	User Optimized
ELISA	1:5,000 - 1:20,000
Western Blot	1:500 - 1:5,000
Immunohistochemistry	1:50 - 1:200
Other Assays	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
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.

General Reference

Pankov and Yamada. (2002). "Fibronectin at a glance". Journal of Cell Science 115 (Pt 20): 3861–3. Cho and Mosher. (2006). "Role of fibronectin assembly in platelet thrombus formation". J. Thromb. Haemost. 4 (7): 1461–9.

Related Products

100-101-240	Anti-FIBRINOGEN (Human Plasma) (GOAT) Antibody - 100-101-240
600-401-117-0.1	Anti-Fibronectin (Human) (RABBIT) Antibody - 600-401-117-0.1
600-401-117-0.5	Anti-Fibronectin (Human) (RABBIT) Antibody - 600-401-117-0.5
611-1302	Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302

Related Links

NCBI - AAA53376.1

<http://www.ncbi.nlm.nih.gov/protein/AAA53376.1>

NCBI - P02751.4 <http://www.ncbi.nlm.nih.gov/protein/P02751.4>

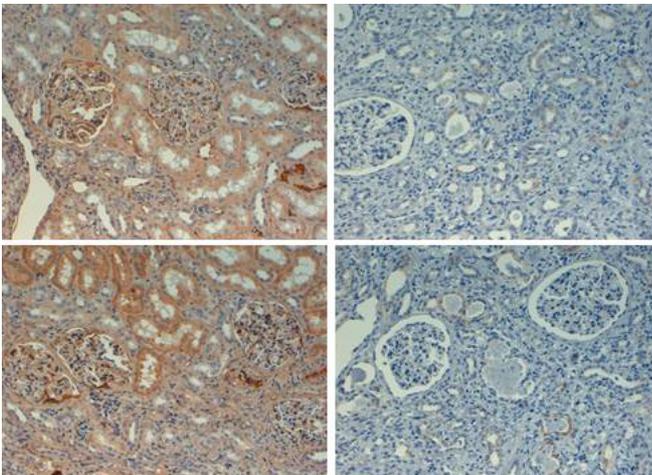
UniProtKB - P02751

<http://www.uniprot.org/uniprot/P02751>

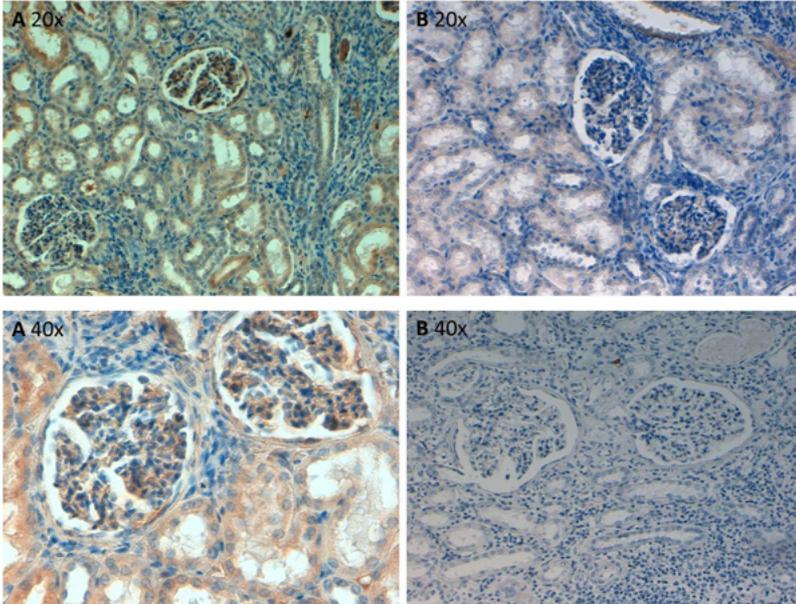
GeneID - 2335 <http://www.ncbi.nlm.nih.gov/gene/2335>

Images

- 1 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.

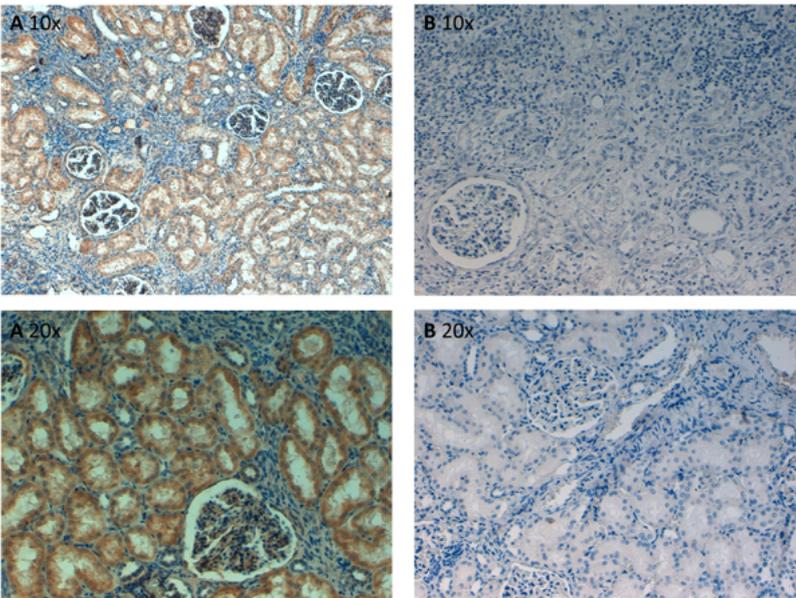


- 2 Immunohistochemistry of Rabbit Anti-Fibronectin Antibody. Tissue: human kidney at pH6 at 20x and 40x. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Fibronectin antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody 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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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).



Disclaimer

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