

Anti-Fibronectin FN1 Antibody Biotin Conjugated

Catalog Number: B00564

About FN1

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.

Overview

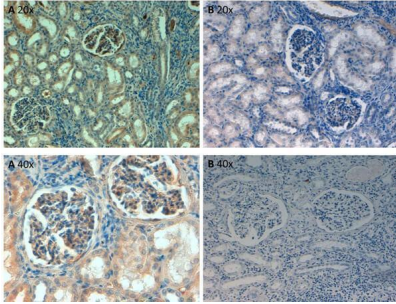
Product Name	Anti-Fibronectin FN1 Antibody Biotin Conjugated
Reactive Species	Bovine, Human, Monkey, Mouse, Rat
Description	Boster Bio Anti-Fibronectin FN1 Antibody Biotin Conjugated (Catalog # B00564). Tested in ELISA, IHC, WB applications. This antibody reacts with Human, Mouse, Rat, Bovine, Monkey.
Conjugate	Biotin
Application	ELISA, IP, IHC, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, antibody formulated with stabilizing protein (10 mg/mL) - Immunoglobulin and Protease free, 0.01% (w/v) Sodium Azide This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	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 date is one (1) year from date of opening. (Ship at ambient temperature.)
Host	Rabbit
Uniprot ID	P02751

Technical Details

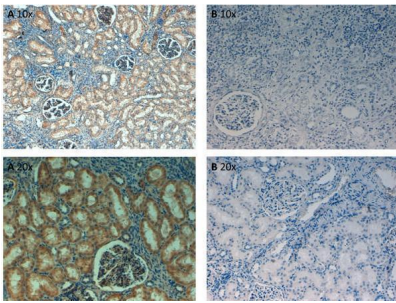
Immunogen	Fibronectin was purified from Human plasma by binding to a denatured gelatin column followed by elution with high concentrations of arginine. The eluted material was further purified by gel
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	filtration. Immunization occurred after single-band purity was assessed by SDS-PAGE.
Predicted Reactive Species	Bovine, Monkey
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Lyophilized
Concentration	1.0 mg/ml by UV absorbance at 280 nm
Purification	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.
Suggested Dilutions	<p>ELISA: 1:5,000 - 1:20,000 Fluorochrome Protein Value: 10-20 IHC: 1:50 - 1:200 IP: 1:100 WB: 1:500 - 1:5,000</p> <p>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-ethylbenthiiazoline-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.</p>

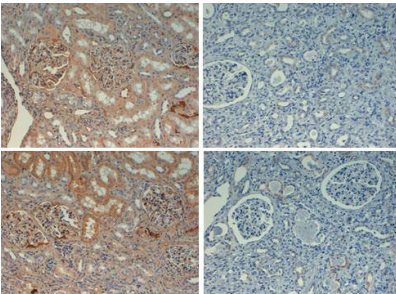
Anti-Fibronectin FN1 Antibody Biotin Conjugated (B00564) Images



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).



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 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.

8 Publications Citing This Product

1. PubMed ID: 26577463, Salidroside protects against bleomycin-induced pulmonary fibrosis: activation of Nrf2-antioxidant signaling, and inhibition of NF- κ B and TGF- β 1/Smad-2/-3 pathways
2. PubMed ID: 23431386, Wang H, Wang Hs, Zhou Bh, Li Cl, Zhang F, Wang Xf, Zhang G, Bu Xz, Cai Sh, Du J. Plos One. 2013;8(2):E56664. Doi: 10.1371/Journal.Pone.0056664. Epub 2013 Feb 19. Epithelial-Mesenchymal Transition (Emt) Induced By Tnf- α Requires Akt/Gsk-3 β -Mediat...
3. PubMed ID: 26617787, RAC1 overexpression promotes the proliferation, migration and epithelial-mesenchymal transition of lens epithelial cells

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