



Datasheet for ABIN5596762
anti-Fibronectin antibody (Biotin)



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Overview

Quantity:	100 µg
Target:	Fibronectin
Reactivity:	Human, Rat, Mouse, Cow, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Fibronectin antibody is conjugated to Biotin
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunoprecipitation (IP)

Product Details

Immunogen:	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. Immunogen Type: Native Protein
Isotype:	IgG
Cross-Reactivity (Details):	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.
Purification:	Anti-fibronectin (rabbit) antibody has been prepared by immunoaffinity chromatography using immobilized antigens followed by extensive cross-adsorption against human serum proteins

Product Details

and collagen and non-collagen extracellular matrix proteins to remove any unwanted specificity.

Labeling Ratio: 10-20

Target Details

Target: Fibronectin

Abstract: [Fibronectin Products](#)

Background: Synonyms: CIG antibody, Cold insoluble globulin antibody, LETS antibody, Migration stimulating factor antibody, MSF antibody, Transformation sensitive protein. Antibody 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.

Gene Name: FN1

Gene ID: 2335

UniProt: [P02751](#)

Application Details

Application Notes: Immunohistochemistry Dilution: 1:50 - 1:200

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-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.

Western Blot Dilution: 1:500 - 1:5,000

Application Details

Immunoprecipitation Dilution: 1:100

ELISA Dilution: 1:5,000 - 1:20,000

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstitution Volume: 100 μ L

Reconstitution Buffer: Restore with deionized water (or equivalent)

Concentration: 1.0 mg/mL

Buffer: Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

Preservative: Sodium azide

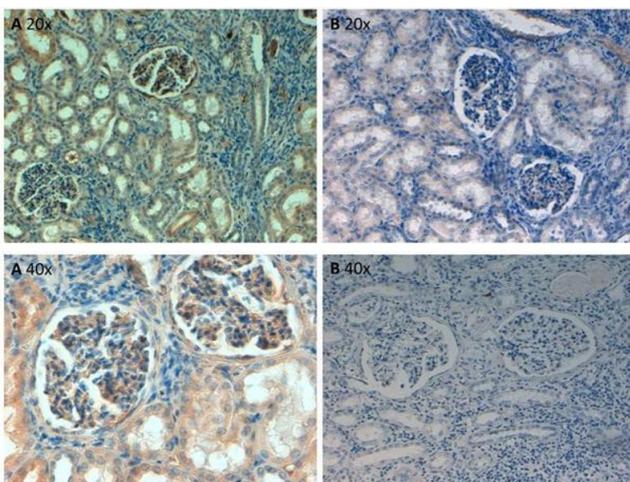
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: 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.

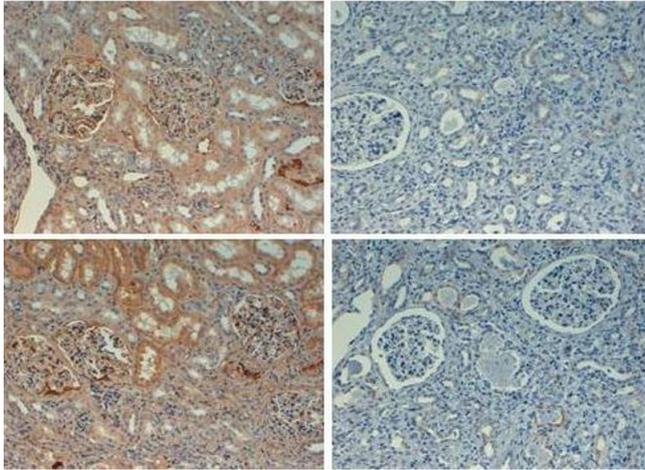
Expiry Date: 12 months

Images



Immunohistochemistry

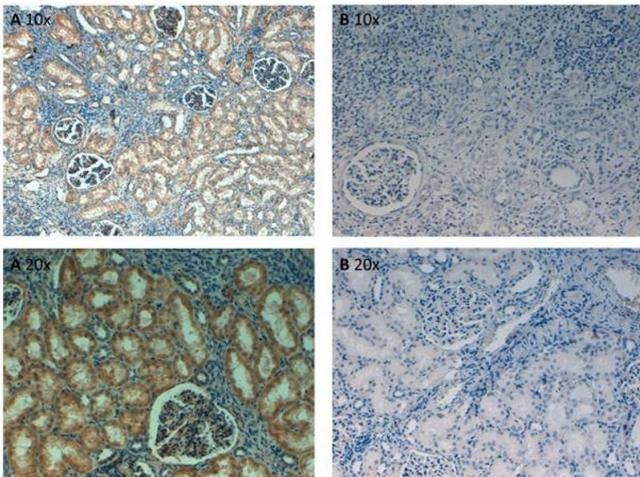
Image 1. Immunohistochemistry of Rabbit Anti-Fibronectin Antibody. Tissue: human kidney at pH6 at 20x and 40x. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Fibronectin antibody at 10 μ g/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary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

Image 2. 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

Image 3. 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).



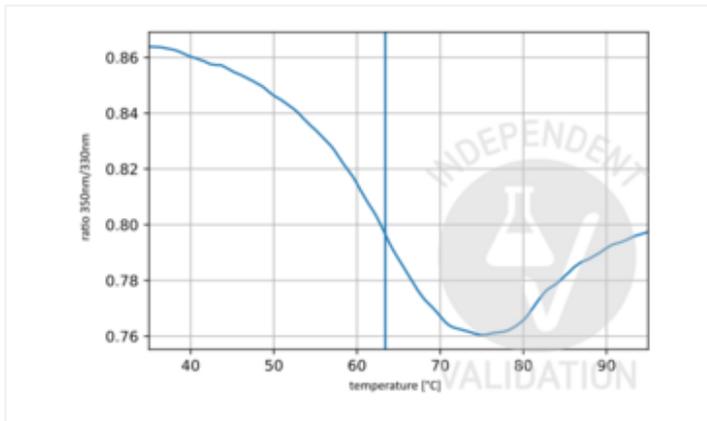
Successfully validated (Unfolding Profile (UP))

by [NanoTemper Technologies](#)

Report Number: 104084

Date: Jul 23 2019

Target:	Fibronectin
Lot Number:	39102
Method validated:	Unfolding Profile (UP)
Positive Control:	ABIN5596762
Notes:	Passed. ABIN5596762 showed T_i at 63.4°C and a clear unfolding profile with one unfolding event. This suggests that the antibody is properly folded and functional.
Protocol:	<ul style="list-style-type: none">• Dilute ABIN5596762 in PBS buffer (Roth, 1058.1, lot 285231988) to get a final volume of 30µl at a concentration of 0.5µM.• Load sample into Tycho capillary (NanoTemper Technologies, TY-C001).• Run Tycho measurement.
Experimental Notes:	Tycho is designed to run quick and precise protein quality check experiments. Tycho uses intrinsic protein fluorescence to follow protein unfolding while running a fast thermal ramp, yielding results in 3min. A protein's unfolding behavior is characterized by various parameters, most notably the inflection temperature (T_i). The T_i can be used to identify properly folded protein, to compare different batches, or to analyze the influence of storage/transport conditions on a protein. An absence of T_i would suggest that the protein is already unfolded and therefore most likely nonfunctional.



Validation image no. 1 for anti-Fibronectin antibody (Biotin) (ABIN5596762)

Unfolding profile of ABIN5596762. The fluorescence signal is plotted against temperature. The vertical line indicates the T_i at 63.4°C.