



Datasheet for ABIN5596760
anti-Fibronectin antibody



[Go to Product page](#)

2 Images

1 Publication

Overview

Quantity:	100 µg
Target:	Fibronectin
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunoprecipitation (IP)

Product Details

Immunogen:	<p>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.</p> <p>Immunogen Type: Native Protein</p>
Isotype:	IgG
Cross-Reactivity (Details):	<p>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.</p>
Purification:	<p>This product 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 specificities.</p>

Target Details

Target:	Fibronectin
Abstract:	Fibronectin Products
Background:	<p>Synonyms: CIG antibody, Cold insoluble globulin antibody, LETS antibody, Migration stimulating factor antibody, MSF antibody, Transformation sensitive protein. Antibody</p> <p>Background: Human fibronectin has a molecular weight of 450,000 daltons when purified in an intact form from plasma. Fibronectin is a glycoprotein synthesized in the liver for the circulating blood plasma form, and is synthesized by many mesenchymal cells, for the extracellular matrix form. It is composed of two similar, but not identical protein chains, which are linked by two disulfide linkages at the C-terminal end of the chains. The chains are composed of domains which have specific secondary structures linked together by regions which are especially susceptible to proteolytic action. For this reason, detection by immunoblot (western) may show considerable variability in the observed apparent molecular weights, which is predicated on the source of the fibronectin, and to what degree proteolysis has occurred. Bands approximately 225 kDa should be observed after SDS-PAGE when reducing and denaturing conditions are used.</p> <p>Gene Name: FN1</p>
Gene ID:	2335
UniProt:	P02751

Application Details

Application Notes:	<p>Immunohistochemistry Dilution: 1:50 - 1:200</p> <p>Application Note: Anti-Fibronectin antibodies have been used for indirect trapping ELISA for quantitation of antigen in serum using a standard curve, for immunoprecipitation and for western blotting for highly sensitive qualitative analysis. Rockland's anti-Fibronectin detects intact fibronectin (Invitrogen, Cat. No. 33016-015) by western blot after digestion by Matrix Metalloproteinase-3 (MMP-3) overnight at 37° C. Separation was performed using a 4-12 % Tris-Glycine gel. Under these conditions a sizeable, dark band at ~220 kDa representing the undigested fibronectin, as well as many, smaller bands representing the variably sized fragments resulting from fibronectin digestion by MMP-3 were noted. For immunohistochemistry paraffin embedded tissue preparation is recommended.</p> <p>Western Blot Dilution: 1:5,000 - 1:10,000</p> <p>Immunoprecipitation Dilution: 1:100</p> <p>ELISA Dilution: 1:5,000 - 1:10,000</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None
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 opening. This product is stable at 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage mix with an equal volume of glycerol, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing.
Expiry Date:	12 months

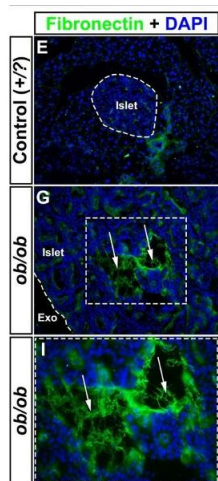
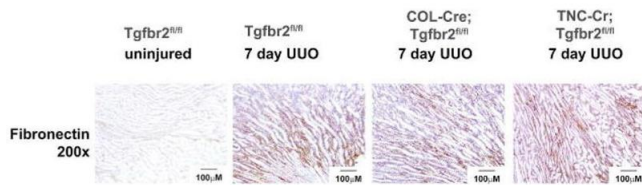
Publications

Product cited in:	<p>Ida, Hikage, Itoh, Ida, Ohguro: "Prostaglandin F2α agonist-induced suppression of 3T3-L1 cell adipogenesis affects spatial formation of extra-cellular matrix." in: Scientific reports, Vol. 10, Issue 1, pp. 7958, (2020) (PubMed).</p> <p>Kumar Gupta, Sarkar, Wertheim, Pan, Carroll, Oxburgh: "Asynchronous mixing of kidney progenitor cells potentiates nephrogenesis in organoids." in: Communications biology, Vol. 3, Issue 1, pp. 231, (2020) (PubMed).</p> <p>Hwang, Huang, Burwell, Peterson, Connor, Weiss, Yu, Li: "In Situ Imaging of Tissue Remodeling with Collagen Hybridizing Peptides." in: ACS nano, Vol. 11, Issue 10, pp. 9825-9835, (2019) (PubMed).</p> <p>Tanaka, Ng, Yang Yu, Casco-Robles, Maruo, Tsonis, Chiba: "A developmentally regulated switch from stem cells to dedifferentiation for limb muscle regeneration in newts." in: Nature communications, Vol. 7, pp. 11069, (2016) (PubMed).</p> <p>Fetting, Guay, Karolak, Iozzo, Adams, Maridas, Brown, Oxburgh: "FOXD1 promotes nephron progenitor differentiation by repressing decorin in the embryonic kidney." in: Development (Cambridge, England), Vol. 141, Issue 1, pp. 17-27, (2014) (PubMed).</p>
-------------------	--

Validation report #300049 for Immunohistochemistry (IHC)

Immunohistochemistry

Image 1. Fibronectin staining using ABIN5596760 were performed on 7 day UUO kidneys. Source: PMC4556568



Immunohistochemistry

Image 2. Immunohistochemical assessment of proteins involved in blood coagulation in ob/ob pancreata. Photomicrographs of representative pancreatic cryosections from lean control (E,F) and ob/ob (G,H) pancreata at 52 weeks of age labeled for Fibronectin (Green E,G) (ABIN5596760). Source: PMC5054357