

Fibronectin antibody

Cat # FIBR11-A

Rabbit Anti-Human Fibronectin antibody

SIZE: 100 µg

Fibronectins bind cell surfaces and various compounds including collagen, fibrin, heparin, DNA, and actin. Fibronectins are involved in cell adhesion, cell motility, opsonization, wound healing, and maintenance of cell shape. Involved in osteoblast compaction through the fibronectin fibrillogenesis cell-mediated matrix assembly process, essential for osteoblast mineralization. Participates in the regulation of type I collagen deposition by osteoblasts.

Anastellin binds fibronectin and induces fibril formation. This fibronectin polymer, named superfibronectin, exhibits enhanced adhesive properties. Both anastellin and superfibronectin inhibit tumor growth, angiogenesis and metastasis. Anastellin activates p38 MAPK and inhibits lysophospholipid signaling.

Source of Antigen or Antibodies

Uniprot: P02751

Host: Rabbit

Clonality: Polyclonal

Purification: Ammonium sulfate followed by protein affinity chromatography

Immunogen: Native Human plasma derived Fibronectin

Species reactivity: Human

Cross reactivity: Full length human Fibronectin exhibits <99% homology with Monkey fibronectin. 94% with Cat and Horse. 93% Pig, 92% Mouse and 80% with Rat and Chicken. Due to the large size of the protein, it is expected to react with Fibronectin of other species exhibiting greater than 80% homology.

Subcellular Location: Extracellular region

Alternative names: Cold-insoluble globulin

Recommended Secondary Antibody: Goat anti-Rabbit IgG-HRP (ADI cat#20320)

Form & Storage of Antibodies

Affinity pure IgG Solution

Concentration: 0.5 mg/ml Volume: 200 µl
Supplied in PBS, pH 7.4 + 0.1% BSA
The antibody can be made available carrier free or conjugated to HRP, Biotin, or FITC on request

Lyophilized powder

Reconstitute powder in 200 µl distilled water to 0.5 mg/ml

Storage:

Short-term: 4°C for 1 month

Long-term: at -20°C or below in suitable aliquots after reconstitution for 1 year. Do not expose to multiple freeze/thaw cycles or store working, diluted solutions. Glycerol may be added to a final concentration of 50% and antibodies can be stored un-aliquoted at -20°C.

Recommended Usage

ELISA: 0.5-2.0 µg/ml as a capture antibody. 0.1-0.5 µg/ml as a detection antibody. Request the BSA and azide free antibody.

Western Blotting: 0.5-2.0 µg/ml

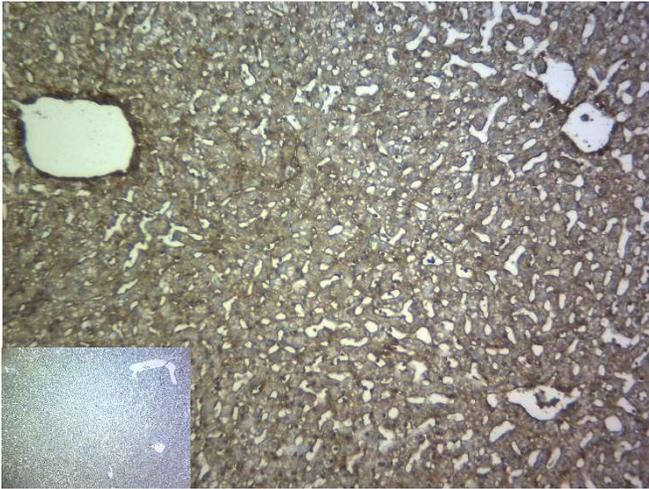
Immunohistochemistry: 1-10 µg/ml. QC tested using 10 mM sodium citrate pH 6, antigen retrieval buffer. The antibody may work better with no retrieval or different retrieval solutions.

The above concentrations are a *suggestion*, user's must optimize their assay based on their own conditions. The antibody may work in other applications such as Immunofluorescence. These methods have not been tested by ADI.

**This product is for In vitro research use only.*

Related materials available from ADI

Catalog#	Description
AB-20710	Mouse Monoclonal Anti-Human CD2 (T11, LFA-2) IgG
VIM21-A	Rabbit Anti-Mouse Vimentin (Ser299) antibody
VIM31-A	Rabbit Anti-Mouse Vimentin (Ser214) antibody
GFAP11-A	Rabbit Anti-Mouse phospho Glial fibrillary acidic protein (Ser266) antibody
GFAP21-A	Rabbit Anti-Mouse Glial fibrillary acidic protein (GFAP) antibody
CDH11-A	Rabbit Anti-Human Cadherin/E-Cadherin (anti-CDH1) antibody
100-765-FBR	Human Fibronectin ELISA Kit
FIBR11 -A	190418IA



Immunohistochemistry: FFPE Human Liver slides were heated for 20 minutes at 60°C then deparaffinized. Antigen retrieval was performed for 10 minutes at 95°C in a microwave using 10 mM pH 6, sodium citrate buffer. The slide was then cooled for 20 minutes at room temperature before being blocked for 30 minutes with 2.5% normal goat serum. **FIBR11-A** was diluted to 5 µg/ml in TBST+0.1% BSA and incubated overnight at 4°C (Inset represents Fibronectin absorbed antibody incubation). The slides were then washed twice and incubated with 3% hydrogen peroxide for 10 minutes to quench endogenous peroxidase. The slide was washed then incubated with Goat anti-Rabbit IgG HRP polymer detection reagent for 30 minutes at room temperature. The slide was washed twice, incubated with DAB for 3 minutes, washed with distilled water, then counterstained for 1 minute with Gil's II Hematoxylin before being cover-slipped.