

For Research Use Only

# Fibronectin Monoclonal antibody

Catalog Number: 66042-1-Ig

Featured Product

89 Publications



## Basic Information

### Catalog Number:

66042-1-Ig

### Size:

1000  $\mu$ g/ml

### Source:

Mouse

### Isotype:

IgG1

### Immunogen Catalog Number:

AG8016

### GenBank Accession Number:

BC005858

### GeneID (NCBI):

2335

### UNIPROT ID:

P02751

### Full Name:

fibronectin 1

### Calculated MW:

2386 aa, 263 kDa

### Observed MW:

263 kDa

### Purification Method:

Protein A purification

### CloneNo.:

1G10F9

### Recommended Dilutions:

WB 1:2000-1:12000

IP 0.5-4.0  $\mu$ g for 1.0-3.0 mg of total protein lysate

IHC 1:300-1:1200

IF 1:50-1:500

## Applications

### Tested Applications:

IF/ICC, IF-P, IHC, IP, WB, ELISA

### Cited Applications:

WB, IP, IF, FC, IHC, CoIP, Cell treatment

### Species Specificity:

human, mouse, rat

### Cited Species:

human, rat, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB**: human plasma tissue, human plasma, rat serum, HuH-7 cells, HepG2 cells, MG-63 cells, U2OS cells

**IP**: human plasma tissue,

**IHC**: human colon cancer tissue, human breast cancer tissue

**IF**: NIH/3T3 cells, human colon cancer tissue

## Background Information

Fibronectin 1 (FN1) is a high molecular weight glycoprotein which exists in both a soluble form in plasma (plasma FN1) and other body fluids and an insoluble form in the extracellular matrix (cellular FN1). Plasma FN1 (dimeric form) is secreted by hepatocytes. Cellular FN (dimeric or cross-linked multimeric forms), made by fibroblasts, epithelial and other cell types, is deposited as fibrils in the extracellular matrix. FN1 binds to cell surfaces through integrins and to various compounds including collagen, fibrin and heparin. It is involved in cell adhesion and migration processes including embryogenesis, wound healing, hemostasis, host defense, and metastasis. (PMID: 7276612; 12244123; 12847088)

## Notable Publications

Author	Pubmed ID	Journal	Application
Fan Zhang	34597680	Exp Cell Res	IF, IHC, WB
Yao Liu	36169036	Phytochemistry	WB
Silvia Specia	34529707	PLoS One	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

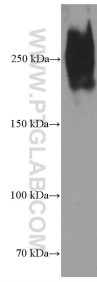
T: 4006900926

E: Proteintech-CN@ptglab.com

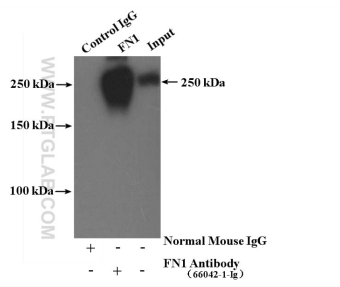
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

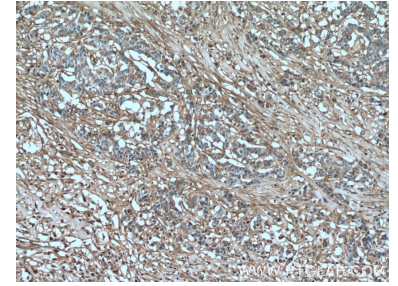
## Selected Validation Data



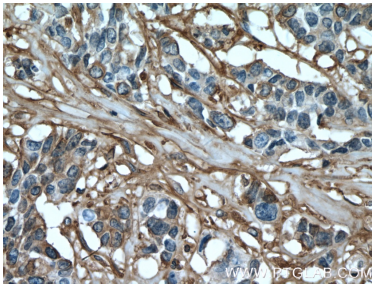
human plasma were subjected to SDS PAGE followed by western blot with 66042-1-Ig (Fibronectin antibody at dilution of 1:6000 incubated at room temperature for 1.5 hours.



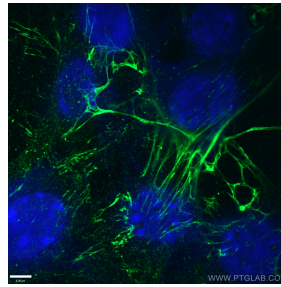
IP result of anti-Fibronectin (IP:66042-1-Ig, 5ug; Detection:66042-1-Ig 1:500) with human plasma lysate 4000ug.



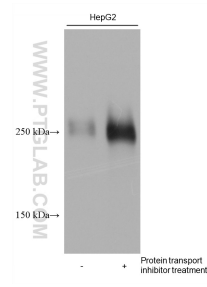
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 66042-1-Ig (Fibronectin antibody) at dilution of 1:600 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



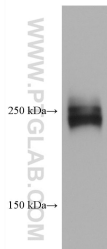
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 66042-1-Ig (Fibronectin antibody) at dilution of 1:600 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol ) fixed NIH/3T3 cells using 66042-1-Ig(Fibronectin antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 66042-1-Ig (Fibronectin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



HuH-7 cells were subjected to SDS PAGE followed by western blot with 66042-1-Ig (Fibronectin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed NIH/3T3 cells using Fibronectin antibody (66042-1-Ig, Clone: 1G10F9 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).