

## Fibronectin (PTR1352) Mouse mAb

CatalogNo: YM4672

### | Key Features

#### Host Species

- Mouse

#### Reactivity

- Human, Mouse, Rat,

#### Applications

- WB, IF, ELISA

#### MW

- 220kD (Calculated)  
285kD (Observed)

#### Isotype

- IgG2a, Kappa

### | Recommended Dilution Ratios

**WB 1:500-2000**

**IF 1:100-500**

**ELISA 1:1000-5000**

### | Storage

**Storage\*** -15°C to -25°C/1 year(Do not lower than -25°C)

**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

### | Basic Information

**Clonality** Monoclonal

**Clone Number** PTR1352

### | Immunogen Information

**Immunogen** Synthesized peptide derived from human protein.AA range:2400-2477

**Specificity** This antibody detects endogenous levels of Fibronectin.

## | Target Information

**Gene name** FN1

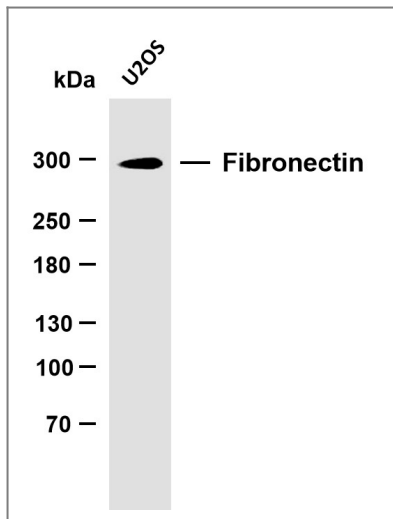
**Protein Name** Fibronectin

Organism	Gene ID	UniProt ID
Human	<a href="#">2335</a> ;	<a href="#">P02751</a> ;
Mouse	<a href="#">14268</a> ;	<a href="#">P11276</a> ;
Rat		<a href="#">P04937</a> ;

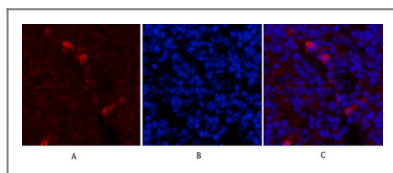
**Tissue specificity** Expressed in the inner limiting membrane and around blood vessels in the retina (at protein level) (PubMed:29777959). Plasma FN (soluble dimeric form) is secreted by hepatocytes. Cellular FN (dimeric or cross-linked multimeric forms), made by fibroblasts, epithelial and other cell types, is deposited as fibrils in the extracellular matrix. Ugl-Y1, Ugl-Y2 and Ugl-Y3 are found in urine (PubMed:17614963).

**Function** Alternative products:Additional isoforms seem to exist,developmental stage:Ugl-Y1, Ugl-Y2 and Ugl-Y3 are present in the urine from 0 to 17 years of age.,Disease:Defects in FN1 are the cause of glomerulopathy with fibronectin deposits type 2 (GFND2) [MIM:601894]; also known as familial glomerular nephritis with fibronectin deposits or fibronectin glomerulopathy. GFND is a genetically heterogeneous autosomal dominant disorder characterized clinically by proteinuria, microscopic hematuria, and hypertension that leads to end-stage renal failure in the second to fifth decade of life.,Function: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. Interaction with TNR mediates inhibition of cell adhesion and neurite outgrowth.,online information:Fibronectin entry,PTM:Forms covalent cross-links mediated by a transglutaminase, such as F13A or TGM2, between a glutamine and the epsilon-amino group of a lysine residue, forming homopolymers and heteropolymers (e.g. fibrinogen-fibronectin, collagen-fibronectin heteropolymers).,PTM:It is not known whether both or only one of Thr-2064 and Thr-2065 are/is glycosylated.,PTM:Sulfated.,similarity:Contains 12 fibronectin type-I domains.,similarity:Contains 16 fibronectin type-III domains.,similarity:Contains 2 fibronectin type-II domains.,subunit:Mostly heterodimers or multimers of alternatively spliced variants, connected by 2 disulfide bonds near the carboxyl ends; to a lesser extent homodimers. Interacts with FBLN1, AMBP, TNR, LGALS3BP and COL13A1. Interacts with FBLN7.,tissue specificity:Plasma FN (soluble 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. Ugl-Y1, Ugl-Y2 and Ugl-Y3 are found in urine.,

## | Validation Data



Whole cell lysates were separated by 6% SDS-PAGE, and the membrane was blotted with anti-Fibronectin (PTR1352) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: U2OS



Immunofluorescence analysis of Mouse-spleen tissue. 1, Fibronectin Monoclonal Antibody(M9)(red) was diluted at 1:200(4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min). 3, Picture B: DAPI(blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B

## Contact information

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