




Rabbit Anti-Fibronectin/FN1 antibody

SL0666R

Product Name:	Fibronectin/FN1
Chinese Name:	纤维连接蛋白抗体
Alias:	CIG; Cold insoluble globulin; DKFZp686F10164; DKFZp686H0342; DKFZp686I1370; DKFZp686O13149; ED B; ED-B; fibronectin 1; FINC; FN 1; FN; FN1; FNZ; GFND; GFND2; LETS; Migration stimulating factor; MSF; Transformation sensitive protein; FINC_HUMAN; Fibronectin; Cold-insoluble globulin; Ugl-Y3.
文献引用 	<p>Specific References(8) SL0666R has been referenced in 8 publications.</p> <p>[IF=3.61]Xu, Zhen E., et al. "Inflammatory stress exacerbates lipid-mediated renal injury in ApoE/CD36/SRA triple knockout mice." American Journal of Physiology-Renal Physiology 301.4 (2011): F713-F722.IHC-P;Mouse. PubMed:21795641</p> <p>[IF=3.55]Guo, Hong-Feng, et al. "Piezoelectric PU/PVDF electrospun scaffolds for wound healing applications." Colloids and Surfaces B: Biointerfaces (2012).WB;Mouse. PubMed:22503631</p> <p>[IF=2.61]Jun, Hao, et al. "In vivo and in vitro effects of SREBP-1 on diabetic renal tubular lipid accumulation and RNAi-mediated gene silencing study." Histochemistry and cell biology 131.3 (2009): 327-345.WB;Rat. PubMed:19048273</p> <p>[IF=2.51]Wu, Lina, et al. "The effect of resveratrol on FoxO1 expression in kidneys of diabetic nephropathy rats." Molecular biology reports 39.9 (2012): 9085-9093.IHC-P;Rat. PubMed:22733486</p> <p>[IF=2.17]Bai, X. P., et al. "Fabrication of engineered heart tissue grafts from</p>

	<p>alginate/collagen barium composite microbeads." Biomedical Materials 6.4 (2011): 045002.IHC-P;Rat.</p> <p style="text-align: center;">PubMed:21613722</p> <p>[IF=0.78]Karadeniz, Tugba, et al. "Experimental comparison of protective characteristics of enalapril and trimetazidine in diabetic nephropathy." Renal failure 36.8 (2014): 1283-1290.IHC-P;Mouse.</p> <p style="text-align: center;">PubMed:25010195</p> <p>[IF=3.87]Ma, Yan, et al. "Intraocular expression of serum amyloid a and interleukin-6 in proliferative diabetic retinopathy." American journal of ophthalmology 152.4 (2011): 678-685.IHC-F;Mouse.</p> <p style="text-align: center;">PubMed:21704966</p> <p>[IF=2.33]Elmas, Onur, Oytun Erbas, and Gurkan Yigitturk. "The efficacy of Aesculus hippocastanum seeds on diabetic nephropathy in a streptozotocin-induced diabetic rat model." Biomedicine & Pharmacotherapy 83 (2016): 392-396.IHC-F;Rat.</p> <p style="text-align: center;">PubMed:27424320</p>
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,
Applications:	<p>ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:200-800 (Paraffin sections need antigen repair)</p> <p>not yet tested in other applications.</p> <p>optimal dilutions/concentrations should be determined by the end user.</p>
Molecular weight:	259kDa
Cellular localization:	Extracellular matrixSecretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Fibronectin/Ugl-Y3:1201-1300/2386
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	This gene encodes fibronectin, a glycoprotein present in a soluble dimeric form in plasma, and in a dimeric or multimeric form at the cell surface and in extracellular matrix. Fibronectin is involved in cell adhesion and migration processes including

embryogenesis, wound healing, blood coagulation, host defense, and metastasis. The gene has three regions subject to alternative splicing, with the potential to produce 20 different transcript variants. However, the full-length nature of some variants has not been determined. [provided by RefSeq, Jul 2008].

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.

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.

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. Interacts with COMP. Interacts with S.aureus fnbA. Interacts with TNR; the interaction inhibits cell adhesion and neurite outgrowth. Interacts with FST3.

Subcellular Location:

Secreted, extracellular space, extracellular matrix.

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.

Post-translational modifications:

Sulfated.

It is not known whether both or only one of Thr-2064 and Thr-2065 are/is glycosylated. 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).

Phosphorylation sites are present in the extracellular medium.

Proteolytic processing produces the C-terminal NC1 peptide, anastellin.

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.

Similarity:

Contains 12 fibronectin type-I domains. Contains 2 fibronectin type-II domains.
Contains 16 fibronectin type-III domains.

SWISS:

P11276

Gene ID:

2335

Database links:

[Entrez Gene: 280794](#)Cow

[Entrez Gene: 2335](#)Human

[Entrez Gene: 14268](#)Mouse

[Entrez Gene: 25661](#)Rat

[Olim: 135600](#)Human

[SwissProt: P07589](#)Cow

[SwissProt: P02751](#)Human

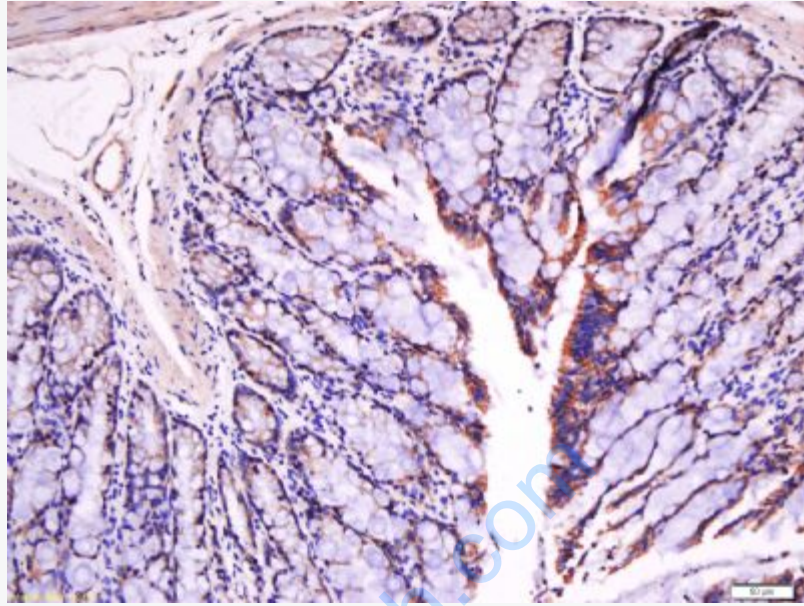
[SwissProt: P11276](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

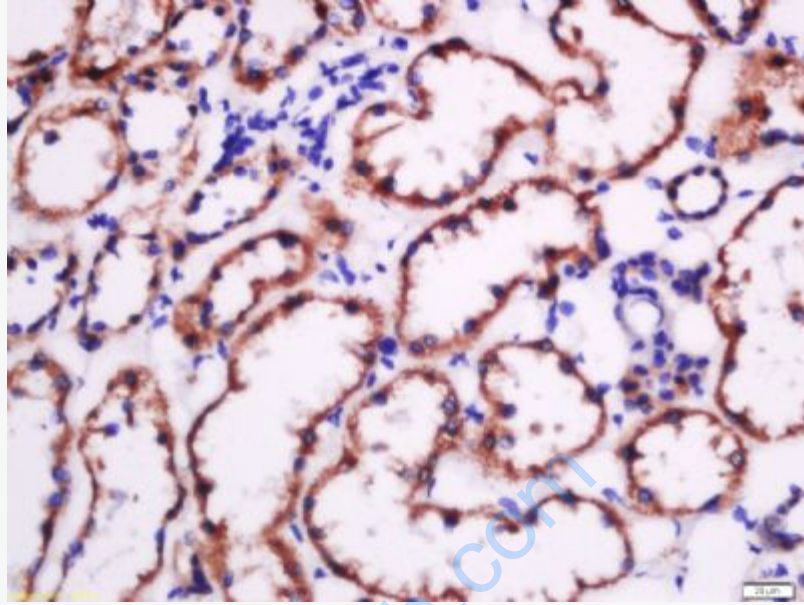
细胞粘附蛋白 (Cell Adhesion Protein)

FaN (Fibronectin) 是一种细胞粘附蛋白, 参与细胞粘附, 分化, 移动, 伤口愈合, 凝血和机体防卫。主要分布于结缔组织及大部分基底膜上, 作为判断良恶性上皮源性 Tumour (如乳腺癌等) 的一个主要参考指标, 亦可作为恶性 Tumour 转移和病人预后的判断指标



Picture:

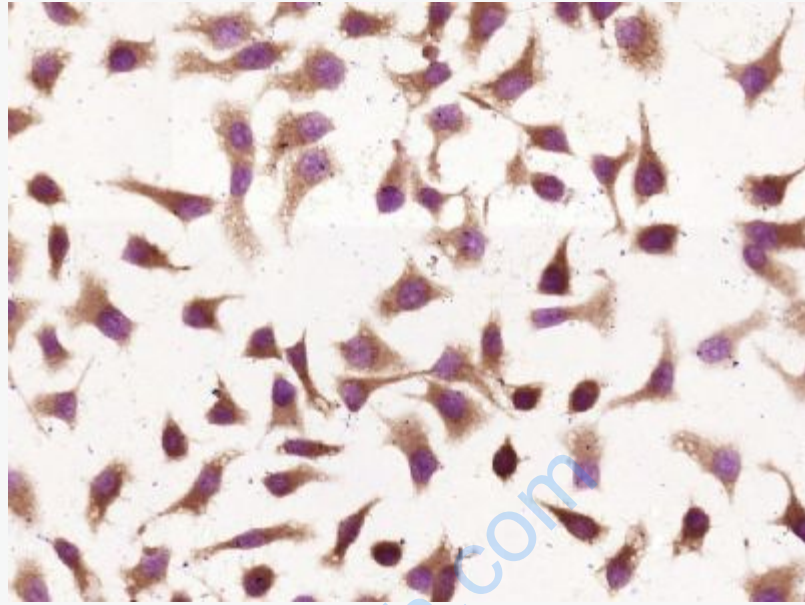
Tissue/cell: rat intestine tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block
endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer
(normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-Fibronectin/FN1 Polyclonal Antibody, Unconjugated(SL0666R)
1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-
0023) and DAB(C-0010) staining



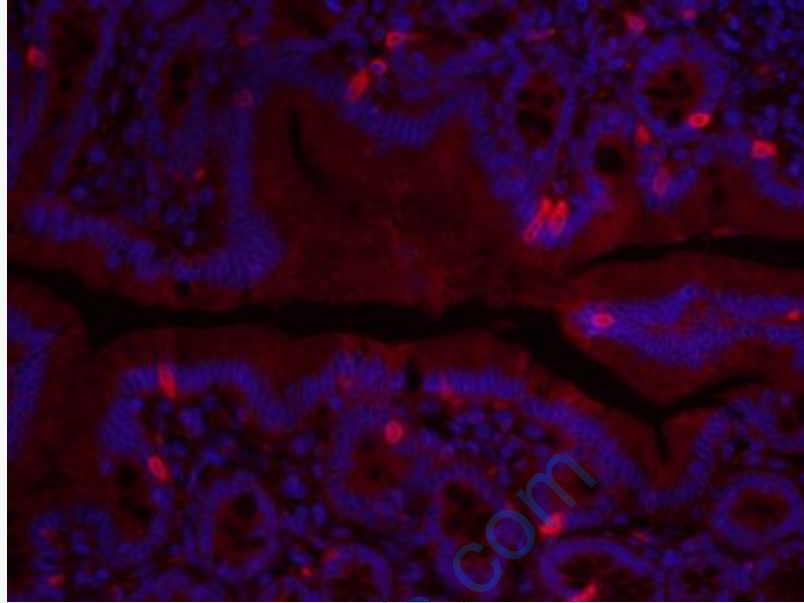
Tissue/cell: human kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-Fibronectin/FN1 Polyclonal Antibody, Unconjugated(SL0666R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: HepG2 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Fibronectin/FN1) Polyclonal Antibody, Unconjugated (SL0666R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation: Anti-Fibronectin Polyclonal Antibody, conjugated (SL0666R) 1:400, 1.5 hours at 37°C; DAPI (5ug/ml, blue, C-0033) was used to stain the cell nuclei.