Fibronectin (FN1) Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	Fibronectin (FN1), Monoclonal Antibody
Full Product Name	Fibronectin (BSA & Azide Free) (MaxLight 490)
Product Gene Name	anti-FN1 antibody
Clonality	Monoclonal
Isotype	IgG1
Clone Number	3F179
Host	Mouse
Species Reactivity	Human, Mouse, Rat
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein G Affinity Chromatography
Specificity	Recognizes fibronectin. Species Crosseactivity: Human, mouse and rat.
Preparation and Storage	Store at 4 degree C. Do Not Freeze.
Molecular Weight	262,625 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (216225177..216300791, complement). Location: 2q34
OMIM	135600
3D Structure	ModBase 3D Structure for P02751
Immunogen	Recombinant fibronectin protein. MW: Non-reduced: 440kD; Reduced: 220kD. Cellular Localization: Connective tissue matrix and basement membrane.
Conjugate	MaxLight490
Product Categories/Family for anti-FN1 antibody	Antibodies; Fibronectin
Applications Tested/Suitable for anti-FN1 antibody	Immunofluorescence (IF), Immunohistochemistry (IHC), Western Blot (WB)
Related Product Information for anti-FN1 antibody	MBS6267441 is an antibody targeting FN1. Also known as Fibronectin (BSA & Azide Free) (MaxLight 490). Reactive in Human, Mouse, Rat. Host: Mouse.
Product References and Citations for anti-FN1 antibody	1. D'Ardenne AJ, et al. J Clin Pathol 1986; 39:138-44. 2. Kirkpatrick P, et al. J Clin Pathol 1984; 37:639-44. 3. Christensen L. et al. APMIS 1990; 98:615-23. 4. Christiansen BS, et al. Scand J Clin Lab Invest 1988; 48:685-90. 5. S.D.K. Berry et al., J Dairy Science 86:2864-2874
Other Notes	Small volumes of anti-FN1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FN1. It may not necessarily be applicable to this product.

NCBI GI #	16933542

NCBI GeneID	2335
NCBI Accession #	NP_002017.1
UniProt Primary Accession #	P02751
UniProt Secondary Accession #	O95609; O95610; Q14312; Q14325; Q14326; Q17RV7; Q585T2; Q59EH1; Q60FE4; Q68DP8; Q68DP9
UniProt Related Accession #	P02751
GenBank Nucleotide #	NM_002026.2
NCBI Official Full Name	fibronectin isoform 3 preproprotein
NCBI Official Synonym Full Names	fibronectin 1
NCBI Official Symbol	FN1
NCBI Official Synonym Symbols	FN; CIG; FNZ; MSF; ED-B; FINC; GFND; LETS; GFND2
UniProt Protein Name	Fibronectin
UniProt Synonym Protein Names	Cold-insoluble globulin
Protein Family	Fibronectin
UniProt Gene Name	FN1
UniProt Synonym Gene Names	FN; FN; CIG
UniProt Entry Name	FINC_HUMAN
NCBI Protein Information	fibronectin; cold-insoluble globulin; migration-stimulating factor
NCBI Summary for FN1	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]
UniProt Comments for FN1	FN1: 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. Defects in FN1 are the cause of glomerulopathy with fibronectin deposits type 2 (GFND2); 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. 15 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted; Secreted, signal peptide; Motility/polarity/chemotaxis; Cell adhesion Chromosomal Location of Human Ortholog: 2q34 Cellular Component: extracellular matrix; extracellular space; apical plasma membrane; fibrinogen complex; extracellular region; ER-Golgi intermediate compartment; basal lamina Molecular Function: heparin binding; collagen binding; integrin binding; protein binding; protease activator activity; protease binding Biological Process: integrin activation; platelet activation; extracellular matrix organization and biogenesis; positive regulation of axon extension; extracellular matrix disassembly; regulation of cell shape; platelet degranulation; acute-phase response; calcium-independent cell-matrix adhesion; cell-substrate junction assembly; response to wounding; peptide cross-linking; angiogenesis; cell adhesion; blood coagulation; leukocyte migration Disease: Glomerulopathy With Fibronectin Deposits 2; Plasma Fibronectin Deficiency
Research Articles on FN1	**1.** Treated neutrophils aggregate on fibronectin (Fn)-coated wells and exhibit an exaggerated cell aggregation phenotype on wells coated with Fn plus beta-glucan.

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