Rabbit Fibronectin 1 Polyclonal Antibody | anti-FN1 antibody

Fibronectin 1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321218	**Rabbit**	**Human, Mouse, Rat**	**ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot**

PRODUCT SYNONYMS

Fibronectin 1; Polyclonal Antibody; Fibronectin 1 Antibody; CIG; Cold insoluble globulin; Cold-insoluble globulin; DKFZp686F10164; DKFZp686H0342; DKFZp686I1370; DKFZp686O13149; ED B; FINC; FINC_HUMAN; FN; FN1; FNZ; GFND; GFND2; LETS; Migration stimulating factor; MSF; Ugl-Y3; anti-FN1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Fibronectin 1 antibody detects endogenous levels of Fibronectin 1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	2446
Applicable Applications for anti-FN1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Fibronectin 1
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.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES

IHC (Immunohistochemisry)
AAA321218 at 1/100 staining human brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis on HeLa cell lysate using Fibronectin 1 Antibody. The lane on the left is treated with the antigen-specific peptide.

IF (Immunofluorescence)
AAA321218 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-FN1 antibody	Description: 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. 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. 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. 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. Subunit Structure: 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 (By similarity). Interacts with COMP (PubMed:12225811). Interacts with TNR; the interaction inhibits cell adhesion and neurite outgrowth (By similarity). Interacts with FST3 and MYOC. 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). Phosphorylated by FAM20C in the extracellular medium. Proteolytic processing produces the C-terminal NC1 peptide, anastellin. Some lysine residues are oxidized to allysine by LOXL3, promoting fibronectin activation and matrix formation.

NCBI AND UNIPROT INFORMATION

NCBI GI #	807066342
NCBI GeneID	2335
NCBI Accession #	NP_001293058.1
NCBI GenBank Nucleotide #	NM_001306129.1
UniProt Accession #	P02751; O95609; O95610; Q14312; Q14325; Q14326; Q17RV7; Q564H7; Q585T2; B7ZLF0; E9PE77; E9PG29
Molecular Weight	Observed: 260 kDa Predicted: 263 kDa
NCBI Official Full Name	fibronectin isoform 8
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; SMDCF
NCBI Protein Information	fibronectin
UniProt Protein Name	Fibronectin
UniProt Gene Name	**FN1**
UniProt Synonym Gene Names	FN; FN; CIG

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/fibronectin-1-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321218