

Fibronectin Active Protein | FN active protein

Active Fibronectin (FN)

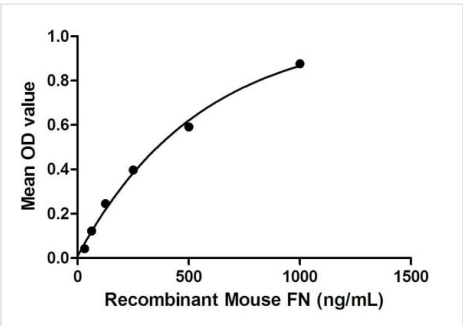
CATALOG # AAA150050	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Fibronectin; Active Fibronectin (FN); FN1; CIG; FINC; LETS; MSF; GFND2; Anastellin; Migration-Stimulating Factor; Cold-Insoluble Globulin; Large; External; Transformation-Sensitive Protein; FN active protein

PRODUCT SPECIFICATIONS

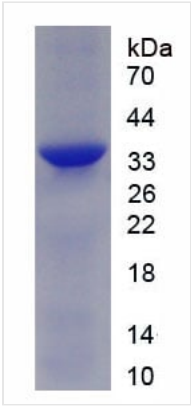
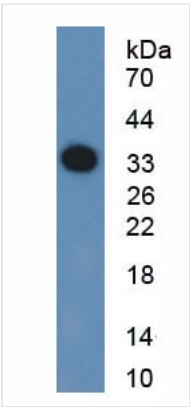
Purity/Purification	>97%
Form/Format	Freeze-dried powder 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Sequence Positions	Gly313–Gly607
Sequence Length	2477
Applicable Applications for FN active protein	Activity Assay, Cell Culture
Species	Mouse
Tag	N-terminal His Tag
Isoelectric Point	5.9
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles. Stability: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.



Bioactivity

Fibronectin (FN) is a high-molecular weight (~440kDa) glycoprotein of the extracellular matrix that binds to membrane-spanning receptor proteins called integrins. Fibronectins bind cell surfaces and various compounds including collagen, fibrin, heparin, DNA, and actin. Fibronectin has numerous functions. For example, it involved in cell adhesion, cell motility, opsonization, wound healing, maintenance of cell shape, and so on. Besides, Decorin (DCN) has been identified as an interactor of FN, thus a binding ELISA assay was conducted to detect the interaction of recombinant mouse FN and recombinant mouse DCN. Briefly, FN were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100L were then transferred to DCN-coated microtiter wells and incubated for 2h at 37. Wells were washed with PBST and incubated for 1h with anti-FN pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of FN and DCN was shown in Figure 1, and this effect was in a dose dependent manner. Figure. The binding activity of FN with DCN.

WB (Western Blot)
Figure. Western Blot



SDS-PAGE
Figure. SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for FN active protein	Signal transduction; Infection immunity
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NCBI AND UNIPROT INFORMATION

NCBI GI #	46849812
NCBI GeneID	14268
NCBI Accession #	NP_034363.1
NCBI GenBank Nucleotide #	NP_034363.1
UniProt Accession #	P11276
Molecular Weight	Predicted Molecular Mass: 34.9kDa Accurate Molecular Mass: 34kDa

NCBI Official Full Name	fibronectin isoform a
NCBI Official Synonym Full Names	fibronectin 1
NCBI Official Symbol	Fn1
NCBI Official Synonym Symbols	Fn; Fn-1; E330027I09
NCBI Protein Information	fibronectin
UniProt Protein Name	Fibronectin
UniProt Gene Name	Fn1
UniProt Synonym Gene Names	FN
UniProt Entry Name	FINC_MOUSE

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/fn-active-protein/fibronectin/150050>