

Fibronectin (FN) Active Protein | FN active protein

Active Fibronectin (FN)

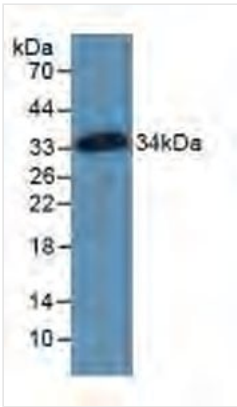
CATALOG # AAA148156	HOST E. coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

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

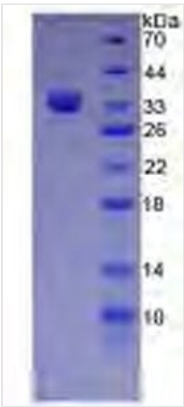
PRODUCT SPECIFICATIONS

Host	E. coli
Purity/Purification	>98%
Form/Format	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.
Applicable Applications for FN active protein	Activity Assay, Cell Culture
Organism Species	Homo sapiens (Human)
Source	Prokaryotic expression.
Residues	Gly313~Ser607
Tags	N-terminal His-tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method).
Predicted isoelectric point	6.2
Usage	Reconstitute in ddH2O to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months. Stability Test: 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°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.



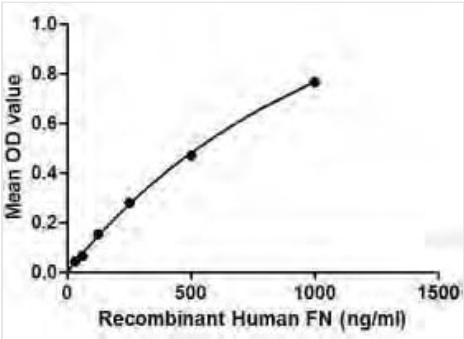
WB (Western Blot)

Sample: Recombinant Fibronectin, Human; Antibody: Rabbit Anti-Human Fibronectin Ab



SDS-PAGE

Sample: Active recombinant Fibronectin, Human



GVVYSVGM	QNLKTQGNKQ	MLCTCLGNV	SCQETAVTQT
YGGNSNGEPC	VLPFTYNGRT	FYSCCTEGRQ	DGHLWCSTTS
CTDHTVLVQT	RGGNSGALC	HFPLYNNHN	YDCTSEGRR
NYDADQKFGF	CPMAAHEEIC	TTNEGVMYRI	GDQWDKQHDH
NGRGEWTCIA	YSQLRDQCIV	DDITYNVNDT	FHKRHEEGHM
GRHKCDPVDQ	CQDSETGTFY	QIGDSWEKYV	HGVRYQCYCY
PLQTYPS			GRGIGEMHCQ

Application Data
Sequence

Application Data
Activity: 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 human FN and recombinant human DCN. Briefly, FN were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to DCN-coated microtiter wells and incubated for 2h at 37°C. 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°C. Finally, add 50UL stop solution to the wells and read at 450nm immediately. The binding activity of of FN and DCN was shown in Figure 1, and this effect was in a dose dependent manner.

ADDITIONAL INFORMATION

Product Categories/Family for FN active protein	Signal transduction; Infection immunity
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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	Predicted Molecular Mass: 34.9kDa Accurate Molecular Mass: 34kDa as determined by SDS-PAGE reducing conditions.

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/e-coli-active-protein/fibronectin-fn/148156>