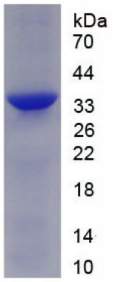
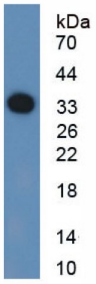
Mouse Fibronectin (FN1) Protein

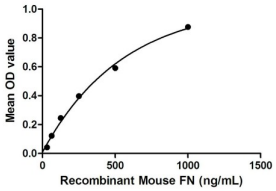
Catalogue No.:abx655983



SDS-PAGE analysis of recombinant Mouse Fibronectin Protein.



Western blot analysis of recombinant Mouse Fibronectin Protein.



Binding activity of active recombinant Mouse Fibronectin Protein with recombinant Mouse Decorin Protein.

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Mouse Fibronectin (FN1) is an active recombinant Mouse protein produced in a Prokaryotic expression system (E. coli).

Target:	Fibronectin (FN1)
Research Area:	Signal Transduction, Infection Immunity
Origin:	Mouse
Expression:	Recombinant
Tested Applications:	WB, SDS-PAGE
Host:	E. coli
Conjugation:	Unconjugated

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Form:	Lyophilized
Activity:	Active
Biological Activity:	Fibronectin (FN) is a high-molecular weight (~440 kDa) glycoprotein found in theextracellular matrix that binds to membrane-spanning receptor proteins called integrins. Fibronectins bind cell surfaces and various compounds including collagen, fibrin, heparin, DNA, and actin. 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 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to DCN-coated microplate wells and incubated for 2 h at 37°C. Wells were washed with PBST and incubated for 1 h with anti-FN polyclonal antibody, then aspirated and washed 3 times. After incubation with HRP-conjugated secondary antibody, wells were aspirated and washed 3 times. TMB substrate solution was added and wells were incubated for 15-25 minutes at 37 °C. Finally, 50 µl stop solution was added to the wells and the absorbance was read at 450 nm immediately. The binding activity of FN and DCN is shown in Figure 3.
Purity:	> 98%
Reconstitution:	To keep the original salt concentration, we recommend reconstituting to the original concentration prior to lyophilization (see Concentration) in ddH_2O. If a lower concentration is required, dilute in 20 mM Tris, 150 mM NaCl, pH 8.0. If a higher concentration is required, the product can be reconstituted directly in 20 mM Tris, 150 mM NaCl, pH 8.0, though please note that this will change the overall salt concentration. The stock concentration should be between 0.1-1.0 mg/ml. Do not vortex.
Storage:	Store at 2-8°C for up to one month. For long-term storage, store at -80°C. Avoid repeated freeze/thaw cycles.
UniProt Primary AC:	P11276 (UniProt, ExPASy)
Gene Symbol:	FN1
GeneID:	14268
KEGG:	mmu:14268
String:	10090.ENSMUSP00000054499
Molecular Weight:	Calculated MW: 34.9 kDa Observed MW (SDS-PAGE): 34 kDa
Sequence Fragment:	Gly313-Gly607
Sequence:	GVVYSVGM QWLKSQGNKQ MLCTCLGNGV SCQETAVTQT YGGNSNGEPC VLPFTYNGRT FYSCTTEGRQ DGHLWCSTTS NYEQDQKYSF CTDHAVLVQT RGGNSNGALC HFPFLYNNRN YTDCTSEGRR DNMKWCGTTQ NYDADQKFGF CPMAAHEEIC TTNEGVMYRI GDQWDKQHDL GHMMRCTCVG NGRGEWACIP YSQLRDQCIV DDITYNVNDT FHKRHEEGHM LNCTCFGQGR GRWKCDPIDQ CQDSETRTFY QIGDSWEKFV HGVRYQCYCY GRGIGEWHCQ PLQTYPG

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Tag:	N-terminal His tag
Buffer:	Prior to lyophilization: 20 mM Tris, 150 mM NaCl, pH 8.0, containing 0.05% Sarcosyl and 5% Trehalose.
Endotoxin Level:	< 1.0 EU/μg (LAL method)
Concentration:	Prior to lyophilization: 200 μg/ml
Note:	THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

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