

Fibulin 2 (FBLN2) Active Protein | FBLN2 active protein

Active Fibulin 2 (FBLN2)

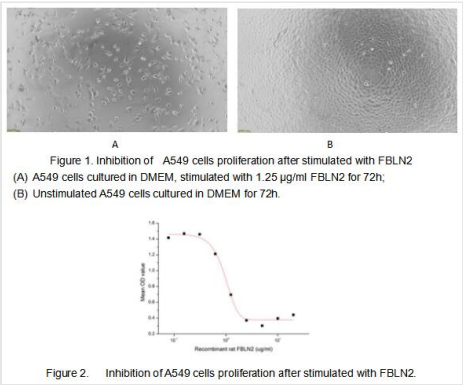
CATALOG # AAA161910	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Fibulin 2 (FBLN2); Active Fibulin 2 (FBLN2); Fibulin 2; FIBL-24; FBLN2 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Asp1014~Pro1222
Applicable Applications for FBLN2 active protein	Activity Assay, Cell Culture
Species	Rat
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	6
Research Area	Developmental science
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

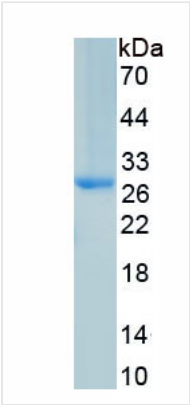


Bioactivity

Fibulin 2 (FBLN2) is the second largest member of the seven-member fibulin family of extracellular membrane (ECM) glycoproteins. The protein is known to form disulfide-linked homodimers, but it can also be secreted as an oligomer. Fibulin 2 is considered a multifunctional binding protein due to its association with numerous ECM components, but its specific interactions have yet to be determined. Fibulin 2 is localized at the interface between microfibrils and the elastin core and its known interactions include nidogen-1, perlecan, laminin, aggrecan, endostatins, versican, collagen, and tropoelastin. It is down-regulated in numerous forms of cancer including breast, colorectal, lung, esophageal, and squamous cell carcinoma, but over-expression has been shown with solid tumors. To test the effect of FBLN2 on cell apoptosis, A549 cells were seeded into triplicate wells of 96-well plates at a density of 4,000 cells/well and allowed to attach overnight, then the medium was replaced with various concentrations of recombinant rat FBLN2 diluted with 5% serum standard DMEM. After incubated for 72h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 µl of CCK-8 solution was added to each well of the plate, then the absorbance at 450 nm was measured using a microplate reader after incubating the plate for 1h at 37 degree C. Proliferation of A549 cells after incubation with FBLN2 for 72h observed by inverted microscope was shown in Figure 1. Cell viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with recombinant rat FBLN2 for 72h. The result was shown in Figure 2. It was obvious that FBLN2 significantly inhibit cell viability of A549 cells. The ED50 is 0.97 µg/mL.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for FBLN2 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	564304062
NCBI GeneID	282583
NCBI Accession #	XP_006225052.1
NCBI GenBank Nucleotide #	XM_006224990.2
UniProt Accession #	G3V6X1
Molecular Weight	131,302 Da
NCBI Official Full Name	fibulin-2 isoform X1
NCBI Official Synonym Full Names	fibulin 2
NCBI Official Symbol	Fbln2
NCBI Protein Information	fibulin-2
UniProt Protein Name	Fibulin 2
UniProt Gene Name	Fbln2

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/fibulin-2-fbln2/161910>