



**LD Biopharma, Inc.**  
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<http://www.ldbiopharma.com>

## - PRODUCT DATA SHEET -

**Name of Product:** Recombinant Human FBLN2 Protein  
**Catalog Number:** hRP-1100  
**Manufacturer:** LD Biopharma, Inc.

### Introduction

Human Fibulin-2 (FBLN2) gene encodes an extracellular matrix protein, which belongs to the fibulin family. This protein binds various extracellular ligands, such as fibronectin and calcium. It may play a role during organ development, in particular, during the differentiation of heart, skeletal and neuronal structures. Recent data also indicated that human FBLN2 has an important tumor-suppressive and anti-angiogenic role in nasopharyngeal carcinoma (NPC).

Full-length mature human FBLN2 cDNA (28–1184aa, isoforms-b, derived from BC051690) was constructed with codon optimization and expressed with a small T7-His-TEV cleavage site Tag (29aa) fusion at its N-terminal. This protein is expressed in E.coli as inclusion bodies. The final product was refolded using our unique “temperature shift inclusion body refolding” technology and chromatographically purified.

**Gene Symbol:** FBLN2  
**Accession Number:** NP\_001989.2  
**Species:** Human  
**Size:** 20 µg / Vial  
**Composition:** 0.2 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, arginine, DTT and Glycerol.  
**Storage:** In Liquid. Keep at -80°C for long term storage. Product is stable at 4 °C for at least 30 days.

### Key References

Law,E.W., et al., *Anti-angiogenic and tumor-suppressive roles of candidate tumor-suppressor gene, Fibulin-2, in nasopharyngeal carcinoma.* Oncogene 31 (6), 728-738 (2012)

Piscaglia,F., et al., *Expression of ECM proteins fibulin-1 and -2 in acute and chronic*



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*liver disease and in cultured rat liver cells.* Cell Tissue Res. 337 (3), 449-462 (2009)

Miosge, N., et al., *The extracellular matrix proteins fibulin-1 and fibulin-2 in the early human embryo.* Histochem. J. 28 (2), 109-116 (1996)

## **Applications**

1. May be used for in vitro human FBLN2 mediated early human ES cell differentiation regulation study or tumor-suppressor gene activities study with this protein as either coating matrix protein or soluble factor.
2. May be used for FBLN2 protein-protein interaction assay.
3. As antigen for specific antibody production.

## **Quality Control**

Purity: > 90% by SDS-PAGE.

## **Recombinant Protein Sequence**

MASMTGGQQMGRGHHHHHHGNNLYFQGGGFPRQDCTGVECPPLENCIEEAELEPGACCATCVQQGC  
ACEGYQYYDCLQGGFVVRGRVPAGQSYFVDFGSTECSCPPGGGKISCQFMLCPPELLPNCIEAVVV  
ADSCPQCGQVGCVHAGHKYAAGHTVHLPPCRACHCPDAGGELICYQLPGCHGNFSDAEEGDPER  
HYEDPYSYDQEVAEVEAATALGGEVQAGAVQAGAGGPPAALGGGSQPLSTIQAPPWPAVLPRPT  
AAAALGPPAPVQAKARRVTEDESEEEEEEEEEEREEMAVTEQLAAGGHRGLDGLPTTAPAGPSLPI  
QEERAEAGARAEAGARPEENLILDAQATSRSTGPEGVTHAPSLGKAALVPTQAVPGSPRDPVKP  
SPHNILSTSLPDAAWIPPTREVPRKPQVLPHSHVEEDTDPNSVHSIPRSSPEGSTKDLIETCCA  
AGQQWAIDNDECLIPESGTEDNVCRTAQRHCCVSYLQEKSCMAGVLGAKEGETCGAEDNDSCG  
ISLYKQCCDCCGLGLRVRAEGQSCESNPNLGYPCNHVMLSCCEGEEPLIVPEVRRPPEPAAAPR  
RVSEAEMAGREALSLGTEAELPNSLPGDDQDECLLLPGELCQHLCINTVGSYHCACFPGFSLQD  
DGRTCRPEGHPPQPEAPQEPALKSEFSQVASNTIPLPLPQPNTCKDNGPCKQVCSTVGGSAICS  
CFPGYAIMADGVSCEDINECVTDLHTCSRGEHCVNTLGSFHICYKALTCEPGYALKDGECEVDVE  
CAMGTHTCQPGFLCQNTKGSFYCQARQRCMDGFLQDPEGNCVDINECTSLSEPCRPGFSCINTV  
GSYTCQRNPLICARGYHASDDGAKCVDVNECETGVHRCGEGQVCHNLPGSYRCDCCKAGFQRDAF  
GRGCIDVNECWASPGRLCQHTCENTLGSYRCSASCGLLAADGKRCEDVNECEAQRCSQECANI  
YGSYQCYCRQGYQLAEDGHTCTDIDECAQGAGILCTFRCLNVPGSYQCACPEQGYTMTANGRSC  
KDVDECALGTHNCSEAETCHNIQGSFRCLRLECPPNYVQVSKTKCERTTCHDFLECCQNSPARIT  
HYQLNFQTGLLVPAHIFRIGPAPAFTGDTIALNIIKGNEEGYFGTRRLNAYTGVVYLQRAVLEP  
RDFALDVEMKLWRQGSVTTFLAKMHIFTTTFAL