

## Product datasheet

# Native Human Fibronectin protein ab81743

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### Description

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<b>Product name</b>	Native Human Fibronectin protein
<b>Purity</b>	> 95 % SDS-PAGE. ab81743 is purified from human plasma by column chromatography.
<b>Expression system</b>	Native
<b>Accession</b>	<b><u>P02751</u></b>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Native
<b>Species</b>	Human
<b>Predicted molecular weight</b>	220 kDa
<b>Amino acids</b>	32 to 2386

### Specifications

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Our **Abpromise guarantee** covers the use of **ab81743** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE Western blot
<b>Form</b>	Liquid
<b>Additional notes</b>	Ab81743 can be used as a WB positive control in conjunction with <b>ab6584</b> . ab81743 is suitable to promote the adhesion and propagation of cells in vitro.

### Preparation and Storage

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<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. Constituents: 1.58% Tris HCl, 0.87% Sodium chloride
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### General Info

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<b>Function</b>	Fibronectins bind cell surfaces and various compounds including collagen, fibrin, heparin, DNA,
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and actin. Fibronectins are involved in cell adhesion, cell motility, opsonization, wound healing, and maintenance of cell shape. Involved in osteoblast compaction through the fibronectin fibrillogenesis cell-mediated matrix assembly process, essential for osteoblast mineralization. Participates in the regulation of type I collagen deposition by osteoblasts. Anastellin binds fibronectin and induces fibril formation. This fibronectin polymer, named superfibronectin, exhibits enhanced adhesive properties. Both anastellin and superfibronectin inhibit tumor growth, angiogenesis and metastasis. Anastellin activates p38 MAPK and inhibits lysophospholipid signaling.

**Tissue specificity**

Plasma FN (soluble dimeric form) is secreted by hepatocytes. Cellular FN (dimeric or cross-linked multimeric forms), made by fibroblasts, epithelial and other cell types, is deposited as fibrils in the extracellular matrix. Ugl-Y1, Ugl-Y2 and Ugl-Y3 are found in urine.

**Involvement in disease**

Glomerulopathy with fibronectin deposits 2

**Sequence similarities**

Contains 12 fibronectin type-I domains.  
 Contains 2 fibronectin type-II domains.  
 Contains 16 fibronectin type-III domains.

**Developmental stage**

Ugl-Y1, Ugl-Y2 and Ugl-Y3 are present in the urine from 0 to 17 years of age.

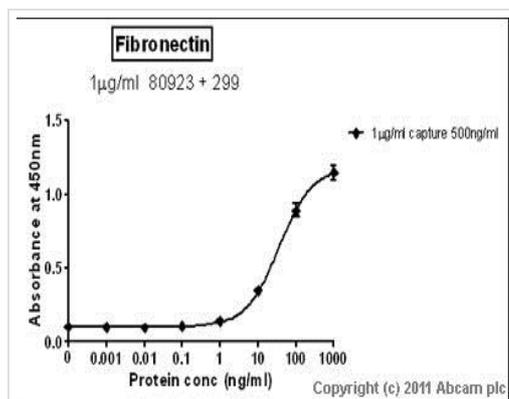
**Post-translational modifications**

Sulfated.  
 It is not known whether both or only one of Thr-2064 and Thr-2065 are/is glycosylated.  
 Forms covalent cross-links mediated by a transglutaminase, such as F13A or TGM2, between a glutamine and the epsilon-amino group of a lysine residue, forming homopolymers and heteropolymers (e.g. fibrinogen-fibronectin, collagen-fibronectin heteropolymers).  
 Phosphorylated by FAM20C in the extracellular medium.  
 Proteolytic processing produces the C-terminal NC1 peptide, anastellin.

**Cellular localization**

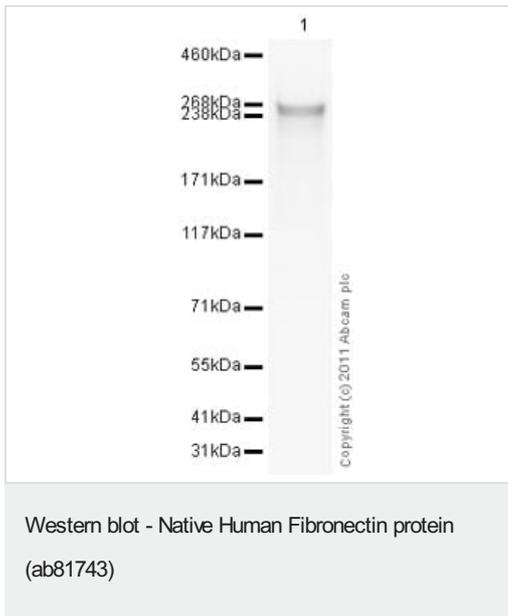
Secreted, extracellular space, extracellular matrix.

**Images**



Standard Curve for Fibronectin (Analyte: **Fibronectin protein (Human) (ab81743)**); dilution range 1pg/ml to 1µg/ml using Capture Antibody **Mouse monoclonal [HFN 7.1] to Fibronectin - BSA and Azide free (ab80923)** at 1µg/ml and Detector Antibody **Rabbit polyclonal to Fibronectin (ab299)** at 0.5µg/ml.

Sandwich ELISA - Native Human Fibronectin protein (ab81743)



Biotin Anti-Fibronectin antibody (**ab6584**) at 1 µg/ml + Native Human Fibronectin protein (ab81743) at 0.001 µg

### Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Exposure time:** 2 minutes

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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