

Product datasheet

Native Mouse Fibronectin protein ab92784

[6 References](#) [1 Image](#)

Description

Product name	Native Mouse Fibronectin protein
Purity	> 95 % SDS-PAGE. ab92784 is > 98% pure by SDS-PAGE. Purified from mouse plasma
Expression system	Native
Accession	<u>P11276</u>
Protein length	Full length protein
Animal free	No
Nature	Native
Species	Mouse
Predicted molecular weight	220 kDa
Amino acids	33 to 2477

Specifications

Our **Abpromise guarantee** covers the use of **ab92784** in the following tested applications.

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

Applications	SDS-PAGE
Form	Liquid
Additional notes	Thaw the fibronectin by placing the vial in a 37°C water bath and leaving it undisturbed until completely thawed. Do not disturb the vial at any time during the thawing process. If the vial is disturbed or removed prior to complete thawing, the fibronectin will form a gel and be unusable. Mix very gently with pipette after thawing. Vortexing, excessive agitation, repeated freezing and thawing of fibronectin are not recommended.

Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.40 Constituents: 1.58% Tris HCl, 0.87% Sodium chloride
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General Info

Function

Fibronectins bind cell surfaces and various compounds including collagen, fibrin, heparin, DNA, 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).

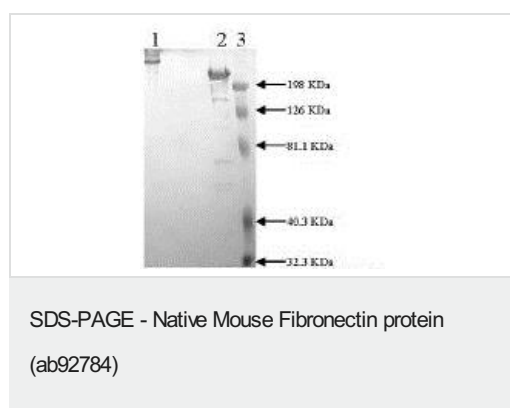
Phosphorylated by FAM20C in the extracellular medium.

Proteolytic processing produces the C-terminal NC1 peptide, anastellin.

Cellular localization

Secreted, extracellular space, extracellular matrix.

Images



10% SDS-PAGE

Lane 1: Fibronectin (5 ug) Reduced

Lane 2: Fibronectin (5 ug) Non-reduced

Lane 3: Prestained Standard

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