abcam

Product datasheet

Anti-Fibronectin antibody [HFN 7.1] ab80923

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Overview

Product name	Anti-Fibronectin antibody [HFN 7.1]
Description	Mouse monoclonal [HFN 7.1] to Fibronectin
Host species	Mouse
Specificity	ab80923 is directed against the peptide core and reacts with both the plasma and cellular forms of fibronectin. It blocks the fibronectin-medicated cell attachment not by disrupting the collagen-fibronectin interaction, but by interfering with the attachment of fibronectin to its receptor on the cell surface
Tested applications	**Suitable for:** Sandwich ELISA, WB, IP, Blocking
Species reactivity	**Reacts with:** Human
Immunogen	Full length protein, Human Fibronectin, purified from serum by affinity chromatography on gelatinsepharose.
Epitope	Peptide core
Positive control	SW156 cells
General notes	Abcam is committed to meeting high standards of ethical manufacturing and has decided to discontinue this product by June 2019 as it has been generated by the ascites method. We are sorry for any inconvenience this may cause. We would recommend antibody ab45688 as a replacement.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: None Constituents: 10mM PBS, pH 7.4
Purity	Protein G purified
Clonality	Monoclonal
Clone number	HFN 7.1
Isotype	IgG1

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab80923 in the following tested applications.

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

Application	Abreviews	Notes
Sandwich ELISA		Use a concentration of 1 µg/ml. Can be paired for Sandwich ELISA with Rabbit polyclonal to Fibronectin (ab299). For sandwich ELISA, use this antibody as Capture at 1 µg/ml with Rabbit polyclonal to Fibronectin (ab299) as Detection.
WB		Use a concentration of 1 - 2 µg/ml. Predicted molecular weight: 263 kDa.
IP		Use at 2 µg/mg of lysate. (Native and denatured - use Protein G)
Blocking		Use at an assay dependent dilution.

Target

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

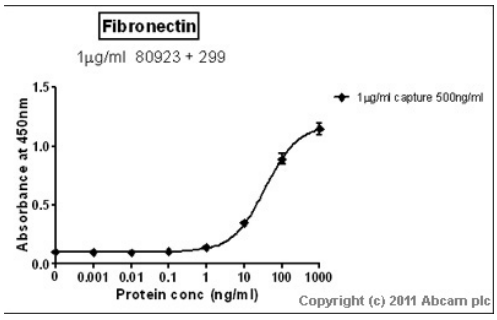
Sequence similarities
Contains 12 fibronectin type-I domains.
Contains 2 fibronectin type-II domains.
Contains 16 fibronectin type-III domains.

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.

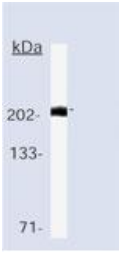
Cellular localization
Secreted, extracellular space, extracellular matrix.

Images



Sandwich ELISA - Anti-Fibronectin antibody [HFN 7.1] (ab80923)

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.



Western blot - Anti-Fibronectin antibody [HFN 7.1] (ab80923)

Anti-Fibronectin antibody [HFN 7.1] (ab80923) at 1 µg/ml + SW156 cells

Predicted band size: 263 kDa

This image was produced using another version of this antibody, containing BSA and azide.

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