Product datasheet

Anti-Fibronectin antibody [BC-1] ab154210

Overview

Product name  Anti-Fibronectin antibody [BC-1]
Description  Mouse monoclonal [BC-1] to Fibronectin
Host species  Mouse
Specificity  ab154210 recognizes Human EDB+Fibronectin.
Tested applications  Suitable for: IHC-Fr, ELISA, WB, ICC/IF
Species reactivity  Reacts with: Human
Immunogen  Fibronectin purified from WI38VA cultured cell medium
Epitope  Within the Fibronectin type III repeat 7, unmasked by the inclusion of the adjacent extra-domain B, in ED-B+Fibronectin isoform

Properties

Form  Liquid
Storage instructions  Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer  pH: 7.60
Preservative: 0.01% Sodium azide
Constituents: 99% PBS, 0.88% Sodium chloride
Purity  Immunogen affinity purified
Clonality  Monoclonal
Clone number  BC-1
Isotype  IgG1

Applications

Our Abpromise guarantee covers the use of ab154210 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>IHC-Fr</td>
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<td>Use a concentration of 0.1 - 5 µg/ml.</td>
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**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**
Immunohistochemistry (frozen sections) analysis of Human glioblastoma (a and c) and Human normal brain (b) tissues labeling fibronectin with ab154210 antibody at 5 µg/ml.

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

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