

Product Information

Monoclonal Anti-Fibronectin, clone FN-15

produced in mouse, ascites fluid

Catalog Number **F7387**

Product Description

Monoclonal Anti-Fibronectin (mouse IgG1 isotype) is derived from the hybridoma produced the fusion of mouse myeloma cells and splenocytes from immunized mice. Mice were immunized with fibronectin isolated from human plasma. The isotype is determined by a double diffusion assay using immunoglobulin and subclass specific antisera.

Monoclonal Anti-Fibronectin labels fibronectin in the pericellular extracellular matrix of cultured human fibroblasts using indirect immunofluorescent methods. It also labels fibronectin in chicken and mouse cells. The antibody specifically stains fibronectin in immunoblotting, and in an ELISA is reactive with human plasma fibronectin.

Monoclonal Anti-Fibronectin may be used to specifically localize fibronectin in human cell culture and in tissue sections by immunoblotting and immunohistochemical techniques.

Fibronectin is an extracellular matrix protein composed of two nearly identical disulfide-bound polypeptides with typical molecular weights of 220-240 KDa. Cellular fibronectin is structurally and antigenically similar to cold insoluble globulin from plasma and polyclonal antibodies to either form usually crossreact. Analysis of the fibronectin molecule indicates that it contains several functionally and structurally distinct domains which may bind to cell surfaces, collagen, heparin, etc. Numerous studies have shown that fibronectin may enhance cell adhesion and spreading and affect the routes of cell migration both *in vivo* and in culture. It has been shown that upon malignant transformation many cells lose their surface bound fibronectin. Immunohistochemical experiments have shown the presence of cellular fibronectin in sections of human malignant tumors indicating that at least part of the fibronectin in such tumors is not derived from the plasma but is produced locally.

Reagent

Supplied as ascites fluid containing 15 mM sodium azide as a preservative.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage

For continuous use, store at 2-8 °C for up to one month. For extended storage, solution may be frozen in working aliquots. Repeated freezing and thawing is not recommended. If slight turbidity occurs upon prolonged storage, clarify by centrifugation before use.

Product Profile

Indirect Immunofluorescence: a working dilution of at least 1:200 was determined by indirect immunofluorescent labeling of cultured human fibroblasts.

Indirect ELISA: a working dilution of at least 1:5,000 was determined using human plasma fibronectin at 5 µg/ml for coating.

Immunoblotting: a working dilution of at least 1:800 was determined using human plasma fibronectin .

Note: In order to obtain best results it is recommended that each individual user determine their working dilution by titration assay.

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