ANTIBODYSHOP

PRODUCT SPECIFICATION

Anti Fibronectin (bovine)
Mouse Monoclonal Antibody

Subclass: IgG_1

PRODUCT NO. **CSI 005-32**

PRESENTATION

Preparation:	Protein-A/G purified
Content:	1 mL, 1 mg/mL
Solvent:	0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15mM sodium azide
Storage:	In the dark at 4-8ºC

ANTIGEN

Fibronectin is an adhesive glycoprotein with a molecular mass of 440 kDa. It is believed to be important for the formation of a provisional matrix that promotes cell adhesion and migration during wound healing. Its age-dependent increase in plasma and tissues may be accompanied in pathological states, especially in tumor growth, by its proteolytic breakdown by a number of neutral proteases. It has also shown that several of its proteolytic breakdown products exhibit unexpected and mostly harmful biological activities (1).

IMMUNOGEN

Bovine corneal endothelial cells

SPECIFICITY

CSI 005-32 is highly specific for fibronectin. There is no evidence for cross-reactivity with other connective tissue proteins (vitronectin, elastin, collagen, laminin).
CSI 005-32 cross-reacts with human fibronectin. Other species have not been tested.

EPITOPE SPECIFICITY

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REACTIVITY

CSI 005-32 can be used in ELISA, Western blotting, immunoprecipitation and immunostaining of frozen PLP-fixed sections of bovine and human tissues. The antibody inhibits cell adhesion to fibronectin mediated by the heparin-binding domain. It can be used to probe fibronectin conformation and to quantitate plasma fibronectin in a sandwich ELISA with antibody CSI 005-35.

CULTURE MEDIUM

RPMI 1640 with 2-10% fetal calf serum

FUSION PARTNER

SP2/O.

IMMUNIZATION

Female BALB/c mice immunized i.p. with immunogen diluted in saline

APPLICATION

Method	Usability	Dilution guideline	References
ELISA	Yes	1:4000	1, 2, 3, 4
Immunoblotting	Yes	1:100	1
Immunohistochemistry	Yes		

The dilution guideline for ELISA is based on use as detection antibody for antigen coated at 2.0 µg/ml. Users should determine the optimal dilutions for their own purposes.

REFERENCES

1. Underwood PA, Dalton BA, Steele JG, Bennett FA, Strike P (1992) Anti-fibronectin antibodies that modify heparin binding and cell adhesion: evidence for a new cell binding site in the heparin binding region. J Cell Sci 102:833-845.
2. Underwood PA, Steele JG, Dalton BA (1993) Effects of polystyrene surface chemistry on biological activity of solid phase fibronectin and vitronectin, analysed with monoclonal antibodies. J Cell Sci 104:793-803.
3. Di Girolamo N, Underwood PA, McCluskey PJ, Wakefield D (1993) Functional activity of plasma fibronectin in patients with Diabetes mellitis. Diabetes 42:1606-1613.
4. Dalton BA, McFarland CD, Underwood PA, Steele JG (1995) Role of heparin binding domain of fibronectin in attachment and spreading of human bone derived cells. J Cell Sci 108:2083-2092.

CONDITIONS
All products are supplied on the understanding that they are for in vitro use only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The animals from which this product was derived have not been exposed to or inoculated with any livestock or poultry disease agents exotic to the United States or Western Europe, and did not originate from facilities where work with exotic disease agents affecting livestock or avian species is carried out.