

Anti-Fibronectin (bovine, human)

Mouse monoclonal antibody

Subclass: IgG1/k

CAT. NO.

CSI 005-32

Clone: A32

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). The antibody inhibits cell adhesion to fibronectin mediated by the heparin-binding domain.

IMMUNOGEN Bovine corneal endothelial cells

TESTED APPLICATIONS ELISA, WB, IHC-F, IHC-P, IP

SPECIES REACTIVITY (POSITIVE) Bovine, human

SPECIES REACTIVITY (NEGATIVE) Not determined

EPITOPE SPECIFICITY Epitope is located in the 40kD Hep II heparin-binding domain, but differs from that of CSI 005-35

PRESENTATION

Content: Available in 400 µL and 1 mL size. 1 mg/mL +/- 15%. See Certificate of Analysis for details.

Preparation: Protein-A purified

Form: Liquid

Solvent: 0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide

Storage: 4-8°C without exposure to light. No precautions necessary during handling.

APPLICATION

ELISA: CSI 005-32 can be used in ELISA. It can be used to probe fibronectin conformation and to quantitate plasma fibronectin in a sandwich ELISA with antibody CSI 005-35. (1, 2, 3, 4)

WB: In Western blotting dilution guideline of 1/100 has proved successful (1).

IHC: CSI 005-32 can be used in immunostaining of frozen PLP-fixed sections of bovine and human tissues.

IP: CSI 005-32 can be used in immunoprecipitation.

TARGET

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.

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 mellitus. 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

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