

Anti-Fibronectin (bovine, human, chicken)**Mouse monoclonal antibody**

Subclass: IgG1/k

CAT. NO.

CSI 005-17

Clone: A17

SPECIFICITY	CSI 005-17 is highly specific for fibronectin. There is no evidence for cross-reactivity with other connective tissue proteins (vitronectin, elastin, collagen, laminin). The antibody inhibits integrin-mediated cell adhesion to the cell binding domain of fibronectin.
IMMUNOGEN	Lysed bovine corneal endothelial cells and extracellular matrix
TESTED APPLICATIONS	ELISA, WB, IHC-F, IHC-P, IP
SPECIES REACTIVITY (POSITIVE)	Bovine, human, chicken
SPECIES REACTIVITY (NEGATIVE)	Not determined
EPITOPE SPECIFICITY	Epitope is located in the 120kD cell binding fragment

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 005-17 can be used in ELISA (1, 2, 3, 4, 5).
WB: In Western blotting a dilution guideline of 1/100 has proved successful (1).
IHC: CSI 005-17 can be used in immunostaining of frozen PLP-fixed sections of bovine and human tissues.
IP: CSI 005-17 can be used in immunoprecipitation. It can be used to probe fibronectin conformation.

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 (1).

REFERENCES

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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.
5. Underwood PA, Bean PA, Mitchell SM, Whitelock JM (2001) Specific affinity depletion of cell adhesion molecules and growth factors from serum. *J Immunol Methods* 247:217-224.

CONDITIONS

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