

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

Subclass: IgG1/k

PRODUCT NO.

**CSI 005-17**

Clone: A17

PRESENTATION

Preparation: Protein-A/G purified

Content: Available in 200 µL and 1 mL size. 1 mg/mL +/- 15%. See Certificate of Analysis for details.

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.

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

Lysed bovine corneal endothelial cells and extracellular matrix

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).

CSI 005-17 cross-reacts with human and chicken fibronectin. Other species have not been tested.

EPI TOPE SPECIFICITY

Epitope is located in the 120kD cell binding fragment

REACTIVITY

CSI 005-17 can be used in ELISA, Western blotting, immunoprecipitation and immunostaining of frozen PLP-fixed sections of bovine and human tissues. The antibody inhibits integrin-mediated cell adhesion to the cell binding domain of fibronectin. It can be used to probe fibronectin conformation. Strong reaction is seen in ELISA with fibronectin directly coated onto the microtiter well. In Western blotting a dilution guideline of 1/100 has proved successful (1).

CULTURE MEDIUM

RPMI 1640 with 10% fetal calf serum

FUSION PARTNER

SP2/O

IMMUNIZATION

Female BALB/c mice immunized by intraperitoneal injection

APPLICATION

Method	Usability	References
ELISA	Yes	1-6
Immunoblotting	Yes	1
Immunohistochemistry	Yes	

REFERENCES

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- Underwood PA, Steele JG, Dalton BA, Bennett FA (1990) Solid phase monoclonal antibodies. A novel method of directing the function of biologically active molecules by presenting a specific orientation. *J Immunol Methods* 127:91-102.

**CONDITIONS**

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