

**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 200 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**

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.
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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