

Anti-Fibronectin (bovine, human, chicken)

CAT. NO. CSI 005-17

OVERVIEW

Product Name	Anti-Fibronectin (bovine, human, chicken)	Conjugation	Unconjugated
Description	Mouse monoclonal antibody	Host	Mouse
Isotype	IgG1/k	Clone	A17
Tested Applications	ELISA, WB, IHC, IP		

SPECIFICITY

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. Epitope is located in the 120kD cell binding fragment		
Immunogen	Lysed bovine corneal endothelial cells and extracellular matrix	Gene ID	280794, 2335, 396133
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)		
Species Reactivity POSITIVE	Bovine, Human, Chicken	Species Reactivity NEGATIVE	Not determined

PROPERTIES

Form	Liquid	Unit Size	0,4 mL and 1 mL
Concentration	1 mg/mL \pm 15%, See CoA for lot details		
Purification	Protein A or Protein G purified	Purification Notes	BSA free
Storage buffer	0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide		
Storage condition	2-8°C without exposure to light		
Safety	Wear protective clothing		

TESTED APPLICATIONS

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.

SCIENTIFIC REFERENCES

- 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.
- 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.
- Di Girolamo N, Underwood PA, McCluskey PJ, Wakefield D (1993) Functional activity of plasma fibronectin in patients with Diabetes mellitus. Diabetes 42:1606-1613.

CONDITIONS

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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.

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