

Anti-Thrombospondin 1 (bovine, human)**Mouse monoclonal antibody**

Subclass: IgG1/k

CAT. NO.

CSI 002-65

Clone:A65M

SPECIFICITY CSI 002-65 is highly specific for the low-calcium (0.1 mmol/L) conformation of human TSP1. There is no evidence of cross-reactivity with other connective tissue proteins (vitronectin, fibronectin, elastin, collagen, laminin).

IMMUNOGEN Extracellular matrix material from cultured bovine corneal endothelial cells

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

SPECIES REACTIVITY (POSITIVE) Bovine, human

SPECIES REACTIVITY (NEGATIVE) Not determined

EPITOPE SPECIFICITY Epitope is only present in thrombospondin prepared in low-calcium (0.1 mmol/L) buffers.

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 002-65 can be used in ELISA (1).

IHC: CSI 002-65 for immunostaining of frozen periodate-lysine-paraformaldehyde-fixed sections of bovine and human tissues. CSI 002-65 can also be used to probe for the low-calcium conformation of thrombospondin (1).

IP: CSI 002-65 can be used for immunoprecipitation

TARGET

Thrombospondin 1 (TSP1) is a multidomain, multifunctional glycoprotein from platelets and certain vascular cells which has been shown to play an important role in cell-cell and cell-matrix interactions. TSP1 is a calcium-sensitive, disulfide-bonded trimer with a subunit molecular mass of 150 kDa. TSP1 exists in different conformational states depending on the calcium ion concentration used in the purification buffers (1).

REFERENCES

1. Matthias LJ, Gotis-Graham I, Underwood PA, McNeil HP, Hogg PJ (1996) Identification of monoclonal antibodies that recognize different disulphide bonded forms of thrombospondin 1. *Biochem Biophys Acta* 1216:138-144.

CONDITIONS

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