

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

Subclass: IgG1/k

PRODUCT NO.

CSI 002-65

Clone: A65M

PRESENTATION

Preparation: Protein-A 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

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).

IMMUNOGEN

Extracellular matrix material from cultured bovine corneal endothelial cells

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). Cross-reactivity with thrombospondins from other species has not been tested.

EPI TOPE SPECIFICITY

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

REACTIVITY

CSI 002-65 can be used for immunoprecipitation and 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.

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
Immunoblotting	Not determined	
Immunohistochemistry	Yes	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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