

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

Subclass: IgG1/k

PRODUCT NO.	<b>CSI 002-65</b>
PRESENTATION	Preparation: Protein-A purified Content: Available in 200 µL and 1 mL volumes, 1 mg/mL Solvent: 0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide Storage: In the dark at 4-8°C
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 were immunized by intraperitoneal injection with immunogen in phosphate-buffered saline.

**APPLICATION**

Method	Usability	Dilution guideline	References
ELISA	Yes	1/200	1
Immunoblotting	Not determined		
Immunohistochemistry	Yes	1/200	1

Users should determine the optimal dilutions for their own purposes.

**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**

All products are supplied on the understanding that they are for in vitro use only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The animals from which this product was derived have not been exposed to or inoculated with any livestock or poultry disease agents exotic to the United States or Western Europe, and did not originate from facilities where work with exotic disease agents affecting livestock or avian species is carried out.