



## **Monoclonal antibody against human/bovine Thrombospondin 1**

**Product No. BP002-65**

**american diagnostica gmbh**

Kaplaneigasse 35 • D-64319 Pfungstadt

Tel: +49 6167 990899 • Fax: +49 6167 990808

### **Description**

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.

### **Preparation**

No. BP002-65 is a mouse IgG<sub>1K</sub> monoclonal antibody purified from cell culture supernatant by Protein A/G affinity chromatography. Extracellular matrix material from cultured bovine corneal endothelial cells was used as the immunizing antigen.

### **Specificity**

BP002-65 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.

### **Epitope specificity**

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

### **Reactivity:**

BP002-65 can be used for immunoprecipitation and for immunostaining of frozen periodate-lysine-paraformaldehyde-fixed sections of bovine and human tissues. BP002-65 can also be used to probe for the low-calcium conformation of thrombospondin.

### **Presentation**

Screw capped vial containing 100 µg of purified IgG. Concentration 1 mg/ml 0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide.

### **Storage and Stability**

Store the antibody at 2°-8°C. The antibody may be aliquoted and stored frozen at -20°C or colder. It is recommended to avoid freeze-thaw cycles.

### **Applications**

ELISA, Immunohistochemistry

### **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.