



## RayBiotech, Inc.

3607 Parkway Lane suite 200  
Norcross, GA 30092  
Tel: 770-729-2992, 1-888-494-8555  
Fax: 770-206-2393  
Website: [www.raybiotech.com](http://www.raybiotech.com)  
Email: [info@raybiotech.com](mailto:info@raybiotech.com)

### Certificate of Analysis and Data Sheet

## Rabbit Anti-Human Thrombospondin-1, N-terminus

**Catalog No:**  
130-00002

**Isotype:**  
Rabbit IgG

**Species:**  
Human

**Accession No:**  
P07996

### Description

Thrombospondin 1 (TSP-1) is a glycoprotein that is released from platelet  $\alpha$ -granules in response to thrombin stimulation and is also a transient component of the extracellular matrix in developing and repairing tissues. TSP-1 is a subunit of a disulfide-linked homotrimeric protein. TSP-1 is an adhesive glycoprotein that mediates cell-to-cell and cell-to-matrix interactions. TSP-1 can bind to fibrinogen, fibronectin, laminin, type V collagen and integrins alpha-V/beta-1. This protein has been shown to play roles in platelet aggregation, angiogenesis, and tumorigenesis. Medical interest in thrombospondin-1 focuses on its roles in haemostasis and its effects on angiogenesis.

### Applications

Summary of antibody applications and working conditions

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	*			1:64,000
Western Blotting			*	
Enzyme Immunoassay(EIA)			*	
Immunohistology - paraffin			*	
Immunohistology - resin			*	
Immunoprecipitation			*	
Flow Cytometry			*	
Neutralization			*	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



## RayBiotech, Inc.

3607 Parkway Lane suite 200  
Norcross, GA 30092  
Tel: 770-729-2992, 1-888-494-8555  
Fax: 770-206-2393  
Website: [www.raybiotech.com](http://www.raybiotech.com)  
Email: [info@raybiotech.com](mailto:info@raybiotech.com)

---

### **Preparation**

The immunogen was a synthetic peptide. This antibody was produced from a rabbit immunized with this peptide conjugated with KLH. The IgG fraction was purified from rabbit serum by Protein G affinity chromatography.

### **Specificity**

This antibody recognizes human TSP-1. Cross reactivity with mouse and rat TSP-1 was detected.

### **Reconstitution**

Product is supplied as a powder obtained from lyophilization of purified antibody in PBS without preservatives. Reconstitute the antibody with sterile 1 x PBS to a final concentration of 1 mg/ml.

### **Storage**

Store at 4°C if intended for use within one month, otherwise, store at -20°C to -80°C. The lyophilized antibody is stable for at least 18 months after the date of receipt when stored at -20°C to -80°C. After reconstitution, it can be aliquoted and stored frozen at -20°C to -80°C in a manual defrost freezer for 6 months without detectable loss of activity. Upon reconstitution, the antibody can also be stored for 1 month at 4°C. **Please avoid freeze-thaw cycles, as this will lower the activity of the antibody.**

### **Reference**

Wolf, FW.; et al. (1990). "Structure and chromosomal localization of the human thrombospondin gene". *Genomics* **6** (4): 685–91.  
Jaffe, E.; et al. (1990). "Mapping of the thrombospondin gene to human chromosome 15 and mouse chromosome 2 by in situ hybridization". *Genomics* **7** (1): 123–6.

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**