

## Monoclonal Antibody to Thrombospondin - Azide Free

<b>Catalog No.:</b>	AM00407AF-N
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.1 mg/ml
<b>Background:</b>	Heparin efficiently inhibits the binding of Thrombospondin to TSP. Hyaluronic acid and chondroitin sulfate show no inhibition at low concentration and only partially inhibit over the concentration range at which heparin abolishes the binding. Immunoprecipitates a 25 kDa peptide (heparinbinding domain) from chymotryptic digests of TSP that is not disulfide bonded to any other region of the TSP molecule. It inhibits the hemagglutination of trypsinized, glutaraldehyde-fixed human erythrocytes by purified TSP. Also inhibits the agglutination of fixed, activated platelets by TSP. It does not inhibit either thrombin- or A23187-induced aggregation of washed, live platelets. It does not bind to reduced and alkylated TSP or TSP transferred to nitrocellulose membrane after SDS-PAGE. It blocks the binding of TSP to sulfatides at low concentrations. It shows no cross-reaction with fibronectin, fibrinogen, and von Willebrand factor.
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Recommended Isotype Controls:</b>	SM20A (for use in rat samples)
<b>Clone:</b>	A2.5
<b>Immunogen:</b>	Calcium-replete (not exposed to EDTA), native purified human TSP from the supernatant of thrombin-activated platelets. Heparin-binding domain of TSP. <b>Remarks:</b> Mol. Wt. of Antigen: ~450 kDa (non-reduced) 170 to 180 kDa (reduced)
<b>Format:</b>	<b>State:</b> Liquid ascites fluid <b>Purification:</b> Protein G chromatography <b>Buffer System:</b> 10 mM PBS, pH 7.4
<b>Applications:</b>	Blocks Binding of TSP-15: use at 5-10 µg/ml. Electron Microscopy. Immunofluorescence. Immunoprecipitation (Native verified): use Protein G, 2 µg/mg protein lysate. Radioimmunoassay. Western Blotting: 1-2 µg/ml for 2 hrs at RT (Non-reduced only). Positive Control: HUVEC cells Not suitable for Immunohistology. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody detects Thrombospondin. <b>Species:</b> Human, Cow, Pig, Horse, Dog, Sheep, and Rat. Other species not tested.

- Add. Information:** Cellular Localization: Secretory granules, Golgi complex, endoplasmic reticulum, extracellular matrix
- Storage:** Store the antibody at 2 - 8 °C up to one month or in aliquots at -20 °C for longer. Avoid repeated freezing and thawing.  
Shelf life: one year from despatch.
- General Readings:**
1. Frazier WA. Current Opin Cell Biol, 1991, 3:792-9.
  2. Good DJ; et al. Proc Natl Acad Sci USA, 1990, 87:6624-8.
  3. Frazier WA. . J Cell Biol, 1987, 105(2):625-32.
  4. Santoro SA; et al. Methods in Enzymology, 1987, 144:438-46.
  5. Dixit VM; et al. Biochemistry, 1985 Jul 30, 24(16):4270-5.
  6. Galvin NJ; et al. J Cell Biol, 1985, 101(4):1434-41.