

## Basic Information

<b>Product Name</b>	Anti-Thrombospondin 1/THBS1 Antibody
<b>Gene Name</b>	THBS1
<b>Source</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG
<b>Species Reactivity</b>	human, mouse, rat
<b>Tested Application</b>	WB, ELISA
<b>Contents</b>	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
<b>Immunogen</b>	E. coli-derived human Thrombospondin recombinant protein (Position: D27-H112). Human Thrombospondin shares 81.4% amino acid (aa) sequence identity with mouse Thrombospondin.
<b>Concentration</b>	500 ug/ml
<b>Purification</b>	Immunogen affinity purified.
<b>Observed MW</b>	129 kDa
<b>Dilution Ratios</b>	Western blot (WB): 1:500-2000 Enzyme linked immunosorbent assay (ELISA):1:100-1000

## Storage

12 months from date of receipt, -20°C as supplied.

## Background Information

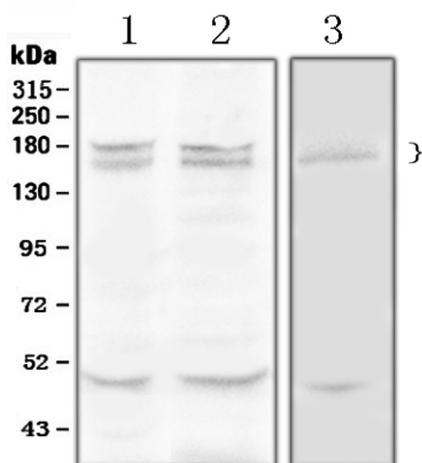
THBS1 is also known as Thrombospondin 1, TSP1. The protein encoded by this gene is a subunit of a disulfide-linked homotrimeric protein. It is an adhesive glycoprotein that mediates cell-to-cell and cell-to-matrix interactions. This protein can bind to fibrinogen, fibronectin, laminin, type V collagen and integrins alpha-V/beta-1. It has been shown to play roles in platelet aggregation, angiogenesis, and tumorigenesis. In addition, the thrombospondin-1 protein is a member of the thrombospondin family. It is a multi-domain matrix glycoprotein that has been shown to be a natural inhibitor of neovascularization and tumorigenesis in healthy tissue. Both positive and negative modulation of endothelial cell adhesion, motility, and growth have been attributed to TSP1. This should not be surprising considering that TSP1 interacts with at least 12 cell adhesion receptors, including CD36,  $\alpha_v$  integrins,  $\beta_1$  integrins, syndecan, and integrin-

associated protein (IAP or CD47). It also interacts with numerous proteases involved in angiogenesis, including plasminogen, urokinase, matrix metalloproteinase, thrombin, cathepsin, and elastase.

## Reference

Anti-Thrombospondin 1/THBS1 Antibody被引用在2文献中。

## Selected Validation Data



Western blot analysis of Thrombospondin 1/THBS1 using anti-Thrombospondin 1/THBS1 antibody (A00667-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: rat liver tissue lysates,

Lane 2: mouse liver tissue lysates,

Lane 3: HELA whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-Thrombospondin 1/THBS1 antigen affinity purified polyclonal antibody (A00667-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Thrombospondin 1/THBS1 at approximately 129 kDa. The expected band size for Thrombospondin 1/THBS1 is at 129 kDa.