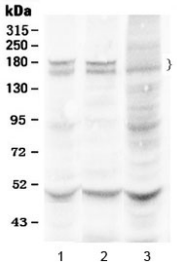
Thrombospondin Antibody (R32670)

Catalog No.	Formulation	Size
R32670	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA, 0.025% sodium azide
UniProt	P07996
Applications	WB: 0.5-1ug/ml ELISA: 0.1-0.5ug/ml (human protein tested; request BSA-free format for coating)
Limitations	This Thrombospondin antibody is available for research use only.



Western blot testing of 1) rat liver, 2) mouse liver and 3) human HeLa lysate with Thrombospondin antibody. Expected molecular weight ~130/155~200 kDa (unmodified/glycosylated), observed here at 165/180 kDa.

Description

THBS1 is also known as Thrombospondin 1, or 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 thrombospondinfamily. 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, aV integrins, b1 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.

Application Notes

Optimal dilution of the Thrombospondin antibody should be determined by the researcher.

Immunogen

Amino acids D27-H112 from the human protein were used as the immunogen for the Thrombospondin antibody.

Storage

After reconstitution, the Thrombospondin antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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