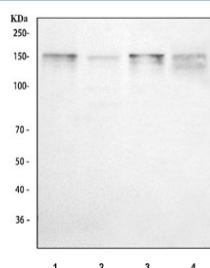


THBS1 Antibody / Thrombospondin 1 (R31909)

Catalog No.	Formulation	Size
R31909	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
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P07996
Applications	Western Blot : 0.5-1ug/ml
Limitations	This THBS1 antibody is available for research use only.



Western blot testing of 1) human HepG2, 2) human K562, 3) rat C6 and 4) mouse NIH 3T3 cell lysate with THBS1 antibody. Expected molecular weight: 130-200 kDa depending on glycosylation level.

Description

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. Also this protein 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. 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, α_v integrins, α_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.

Application Notes

Optimal dilution of the THBS1 antibody should be determined by the researcher.

Immunogen

Amino acids AFRIEDANLIPPVPDDKFQDLVDAVRAEK of human THBS1 were used as the immunogen for the THBS1 antibody.

Storage

After reconstitution, the THBS1 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.