Product datasheet

Anti-Thrombospondin 1/THBS1 Antibody

Catalog Number: *A00667-2*

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Basic Information

Product Name	Anti-Thrombospondin 1/THBS1 Antibody
Gene Name	THBS1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human
Tested Application	WB, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human Thrombospondin/THBS1 recombinant protein (Position: N19-A268).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	129 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA):1:100-1000

Storage

12 months from date of receipt，-20℃ 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. 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 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, αv integrins, β1 integrins, syndecan, and integrin-associated protein (IAP or CD47). It also interacts with numerous proteases involved in angiogenesis, including

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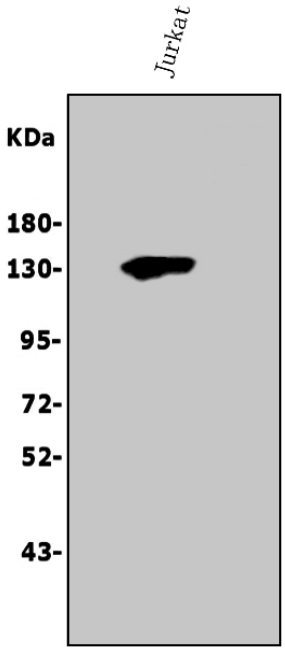
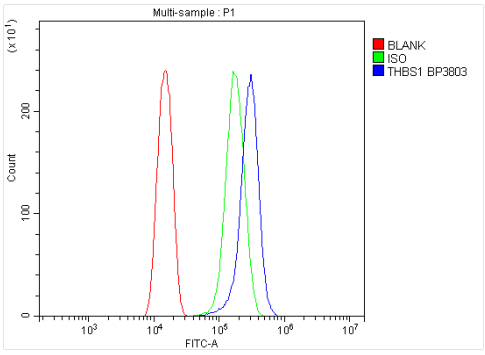
plasminogen, urokinase, matrix metalloproteinase, thrombin, cathepsin, and elastase.

Selected Validation Data



Western blot analysis of Thrombospondin 1/THBS1 using anti-Thrombospondin 1/THBS1 antibody (A00667-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: Human Jurkat 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 (A00667-2) 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.



Flow Cytometry analysis of U2OS cells using anti-Thrombospondin 1/THBS1 antibody (A00667-2).
Overlay histogram showing U2OS cells stained with A00667-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Thrombospondin 1/THBS1 Antibody (A00667-2) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank

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