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Datasheet for ABIN7319437

Thrombospondin 1 Protein (THBS1) (His tag)

Overview

Quantity:	50 µg
Target:	Thrombospondin 1 (THBS1)
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Thrombospondin 1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Thrombospondin-1/THBS1 Protein (His Tag)(Active)
Sequence:	Asn19-Pro1170
Characteristics:	Recombinant Human Thrombospondin-1 is produced by our Mammalian expression system and the target gene encoding Asn19-Pro1170 is expressed with a 10His tag at the C-terminus.
Purity:	> 70 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Immobilized Rhesus macaque CD47-Fc(Cat: PKSQ050076) at 10µg/ml(100 µl/well) can bind Human THBS1-His.

Target Details

Target:	Thrombospondin 1 (THBS1)
Alternative Name:	Thrombospondin-1/THBS1 (THBS1 Products)

Target Details

Background: Background: Thrombospondin-1 (TSP-1) is a 150-180 kDa calcium-sensitive protein that is secreted as a disulfide-linked homotrimer. TSP-1 regulates a wide range of cellular functions including their interactions with other cells and with the extracellular matrix (ECM). TSP-1 contains an N-terminal Laminin G-like globular domain, an extended central region with one vWFC domain, 3 TSP type 1 domains, 2 EGF-like domains, and 8 TSP type3 domains, and a globular TSP C-terminal domain. Distinct regions of TSP-1 have been associated with binding to particular ECM or cellular molecules. TSP-1 counteracts the angiogenic, hypotensive, and antithrombotic effects of nitric oxide (NO). It binds and neutralizes VEGF, blocks VEGF R2 signaling on vascular endothelial cells(EC), and destabilizes adhesive contacts between EC. TSP-1 also plays an important role in wound repair and tissue fibrosis by binding latent TGF-beta and inducing release of the active cytokine from the latency associated peptide (LAP).
Synonym: Thrombospondin-1, THBS1, TSP, TSP1

Molecular Weight: 129.2 kDa

UniProt: [P07996](#)

Pathways: [Autophagy](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.