

Thrombospondin (internal) Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF2629a**Specification**

Thrombospondin (internal) Antibody (internal region) - Product Information

Application	WB, E
Primary Accession	P07996
Other Accession	NP_003237.2 , 7057
Reactivity	Human
Predicted	Mouse, Rat
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	129383

Thrombospondin (internal) Antibody (internal region) - Additional Information**Gene ID** 7057**Other Names**

Thrombospondin-1, THBS1, TSP, TSP1

Dilution

WB~~1:1000

E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Thrombospondin (internal) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

Thrombospondin (internal) Antibody (internal region) - Protein Information**Name** THBS1 ([HGNC:11785](#))**Synonyms** TSP, TSP1**Function**

Adhesive glycoprotein that mediates cell-to-cell and cell-to- matrix interactions (PubMed:<a

[15014436](http://www.uniprot.org/citations/15014436), PubMed: [18285447](http://www.uniprot.org/citations/18285447), PubMed: [2430973](http://www.uniprot.org/citations/2430973), PubMed: [6489349](http://www.uniprot.org/citations/6489349)). Multifunctional, involved in inflammation, angiogenesis, wound healing, reactive oxygen species (ROS) signaling, nitrous oxide (NO) signaling, apoptosis, senescence, aging, cellular self-renewal, stemness, and cardiovascular and metabolic homeostasis (PubMed: [10613822](http://www.uniprot.org/citations/10613822), PubMed: [11134179](http://www.uniprot.org/citations/11134179), PubMed: [1371676](http://www.uniprot.org/citations/1371676), PubMed: [14568985](http://www.uniprot.org/citations/14568985), PubMed: [24511121](http://www.uniprot.org/citations/24511121), PubMed: [29042481](http://www.uniprot.org/citations/29042481), PubMed: [32679764](http://www.uniprot.org/citations/32679764)). Negatively modulates dendritic cell activation and cytokine release, as part of an autocrine feedback loop, contributing to the resolution of inflammation and immune homeostasis (PubMed: [14568985](http://www.uniprot.org/citations/14568985)). Ligand for receptor CD47 (PubMed: [19004835](http://www.uniprot.org/citations/19004835), PubMed: [8550562](http://www.uniprot.org/citations/8550562)). Modulates nitrous oxide (NO) signaling via CD47, hence playing a role as a pressor agent, supporting blood pressure (By similarity). Plays a role in endothelial cell senescence, acting via CD47, by increasing the abundance and activation of NADPH oxidase NOX1, and so generating excess ROS (PubMed: [29042481](http://www.uniprot.org/citations/29042481)). Inhibits stem cell self-renewal, acting via CD47 signaling, probably by regulation of the stem cell transcription factors POU5F1/OCT4, SOX2, MYC/c-Myc and KLF4 (By similarity). Negatively modulates wound healing, acting via CD47 (By similarity). Ligand for receptor CD36 (PubMed: [10613822](http://www.uniprot.org/citations/10613822), PubMed: [11134179](http://www.uniprot.org/citations/11134179), PubMed: [1371676](http://www.uniprot.org/citations/1371676)). Involved in inducing apoptosis in podocytes in response to elevated free fatty acids, acting via CD36 (By similarity). Plays a role in suppressing angiogenesis, acting, depending on context, via CD36 or CD47 (PubMed: [10613822](http://www.uniprot.org/citations/10613822), PubMed: [11134179](http://www.uniprot.org/citations/11134179), PubMed: [1371676](http://www.uniprot.org/citations/1371676), PubMed: [32679764](http://www.uniprot.org/citations/32679764)). Promotes cellular senescence in a TP53-CDKN1A-RB1 signaling-dependent manner (PubMed: [29042481](http://www.uniprot.org/citations/29042481)). Ligand for immunoglobulin-like cell surface receptor SIRPA (PubMed: [24511121](http://www.uniprot.org/citations/24511121)). Involved in ROS signaling in non-phagocytic cells, stimulating NADPH oxidase-derived ROS production, acting via interaction with SIRPA (PubMed: [24511121](http://www.uniprot.org/citations/24511121)). Plays a role in metabolic dysfunction in diet-induced obesity, perhaps acting by exacerbating adipose inflammatory activity; its effects may be mediated, at least in part, through enhanced adipocyte proliferation (By similarity). Plays a role in ER stress response, via its interaction with the activating transcription factor 6 alpha (ATF6) which produces adaptive ER stress response factors (By similarity). May be involved in age-related conditions, including metabolic dysregulation, during normal aging (PubMed: [29042481](http://www.uniprot.org/citations/29042481), PubMed: [32679764](http://www.uniprot.org/citations/32679764)).

Cellular Location

Secreted. Cell surface. Secreted, extracellular space, extracellular matrix. Endoplasmic reticulum {ECO:0000250|UniProtKB:P35441}. Sarcoplasmic reticulum {ECO:0000250|UniProtKB:P35441}. Note=Secreted by thrombin-activated platelets and binds to the cell surface in the presence of extracellular Ca(2+) (PubMed:101549, PubMed:6777381). Incorporated into the extracellular

matrix (ECM) of fibroblasts (PubMed:6341993). The C- terminal region in trimeric form is required for retention in the ECM (PubMed:18285447). Also detected in the endoplasmic reticulum and sarcoplasmic reticulum where it plays a role in the ER stress response (By similarity).

{ECO:0000250|UniProtKB:P35441, ECO:0000269|PubMed:6341993, ECO:0000269|PubMed:6777381}

Tissue Location

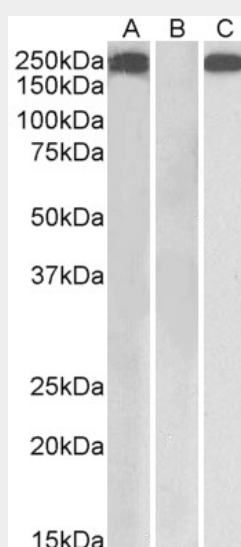
Expressed by platelets (at protein level) (PubMed:101549). Expressed by monocyte-derived immature and mature dendritic cells (at protein level) (PubMed:14568985)

Thrombospondin (internal) Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Thrombospondin (internal) Antibody (internal region) - Images



HEK293 lysate (10ug protein in RIPA buffer) overexpressing Human THBS1 with C-terminal MYC tag probed with AF2629a (1ug/ml) in Lane A and probed with anti-MYC Tag (1/1000) in lane C. Mock-transfected HEK293 probed with AF2629a (1ug/ml) in Lane B. Primary incubations were for 1 hour. Detected by chemiluminescence.

Thrombospondin (internal) Antibody (internal region) - References

Identification of ular genes targeted by KSHV-encoded microRNAs. Samols MA, Skalsky RL, Maldonado AM, Riva A, Lopez MC, Baker HV, Renne R. PLoS Pathog. 2007 May 11;3(5):e65. PMID: 17500590