abcam

ab267388

Anti-Thrombospondin 1 antibody [EPR22927-54]

Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388) is a rabbit monoclonal antibody detecting Thrombospondin 1 in **Western Blot, Flow Cytometry (Intra), IP, IHC-P, ICC/IF**. Suitable for **Human, Mouse, Rat**.

- Biophysical QC for unrivalled batch-batch consistency

Recombinant | RabMAb | Advanced Validation | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR22927-54
Purification technique	Affinity purification Protein A
Concentration	0.526 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Mouse

Dilution info	1/30
Notes	-

Species	Human
Dilution info	1/30
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

WB

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Species	Human
Dilution info	1/1000
Notes	-

Species	Rat
Dilution info	1/1000
Notes	-

ICC/IF

Tested

Species	Rat
Dilution info	1/100
Notes	-

Species	Human
Dilution info	1/100
Notes	-

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt (Intra)

Tested

Species	Mouse
Dilution info	1/50 - 1/500
Notes	-

Species	Human
Dilution info	1/50 - 1/500
Notes	-

Species	Rat
Dilution info	1/50 - 1/500
Notes	-

mIHC

Tested

Species	Human
Dilution info	1/5000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Mouse
Dilution info	1/5004

Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Rat
Dilution info	1/5000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

IHC-P

Tested

Species	Mouse
Dilution info	1/5000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Human
Dilution info	1/5000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information THBS1

Function	Adhesive glycoprotein that mediates cell-to-cell and cell-to-matrix interactions (PubMed:15014436, PubMed:18285447, PubMed:2430973, PubMed: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, PubMed:11134179, PubMed:1371676, PubMed:14568985, PubMed:24511121, PubMed:29042481, PubMed: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). Ligand for receptor CD47 (PubMed:19004835, PubMed: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). 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, PubMed:11134179, PubMed: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, PubMed:11134179, PubMed:1371676, PubMed:32679764). Promotes cellular senescence in a TP53-CDKN1A-RB1 signaling-dependent manner (PubMed:29042481). Ligand for immunoglobulin-like cell surface receptor SIRPA (PubMed:24511121). Involved in ROS signaling in non-phagocytic cells, stimulating NADPH oxidase-derived ROS production, acting via interaction with SIRPA (PubMed: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, PubMed:32679764).

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?

Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Intra), Flow Cytometry (Flow Cyt), Immunoprecipitation (IP), Immunohistochemistry (IHC-P), Immunocytochemistry/immunofluorescence (ICC/IF) in Human, Mouse, Rat samples.

What is the molecular weight of Thrombospondin 1?
Anti-Thrombospondin 1 [EPR22927-54] (ab267388) specifically detects a band for Thrombospondin 1 (UniProt: P35441) at a molecular weight of 129kDa.

Other related products
We have a range of other formats of antibody clone [EPR22927-54] also available for your convenience: ab267388, Carrier free - ab267397

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Trial sizes available!
Test your antibody or perform pre-screening before committing to a larger quantity. Sold in 20µl. Discover our selection of trial-size antibodies.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Thrombospondin 1 also known as TSP1 is a multi-functional glycoprotein involved in cellular processes like adhesion migration and tumorigenesis. It has a molecular weight of approximately 450 kDa. TSP1 is produced by multiple cell types including endothelial cells and fibroblasts and it is widely expressed in the extracellular matrix of both normal and tumor tissues. As a member of the thrombospondin family it interacts with cell receptors like integrins and CD36 to mediate its diverse functions.
Biological function summary	TSP1 is significant in modulating angiogenesis immune response and apoptosis. It acts as an anti-angiogenic factor by inhibiting endothelial cell proliferation and migration. TSP1 is a part of a larger complex where it interacts with other matrix proteins and growth factors to fine-tune cellular behavior within tissues. Through its binding domains it inhibits matrix metalloproteinases helping regulate matrix composition and tissue remodeling.
Pathways	TSP1 influences both the TGF-beta and NF-kB signaling pathways. In the TGF-beta pathway TSP1 activates latent TGF-beta contributing to tissue repair and fibrosis processes. It works synergistically with proteins like SMADs in these pathways. In the NF-kB pathway TSP1 modulates immune responses and inflammatory processes. Its interaction with CD36 and integrins in these pathways underlines its versatile role in cellular signaling.

Associated diseases and disorders	TSP1 has been investigated in cancer progression and cardiovascular diseases. In cancer TSP1's anti-angiogenic properties suppress tumor vascularization which can slow tumor growth. Aberrant TSP1 expression levels have also been linked to atherosclerosis development as it interacts with endothelial cells and inflammatory molecules like TNF-alpha. In both these contexts TSP1 engages with proteins such as integrins and CD36 to exert its influence on disease progression.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

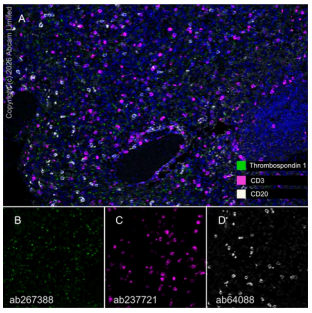
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

17 product images



Multiplex immunohistochemistry - Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388)

Thrombospondin 1 Multiplex immunohistochemistry staining of Human spleen using rabbit Anti-Thrombospondin 1 antibody

Multiplex immunohistochemistry analysis of formalin/PFA-fixed paraffin-embedded human spleen tissue staining Thrombospondin 1 with ab267388 at a 1/5000 dilution, ab237721 anti-CD3 used at 1/2000 dilution and ab64088 anti-CD20 used at a 1/100 dilution.
Panel A: merged staining of anti-Thrombospondin 1 (green; Opal™520), anti-CD3 (magenta; Opal™690) and anti-CD20 (gray; Opal™570) on human spleen.

Panel B: anti-Thrombospondin 1 staining megakaryocytes or platelet in human spleen.

Panel C: anti-CD3 staining T lymphocytes in human spleen.

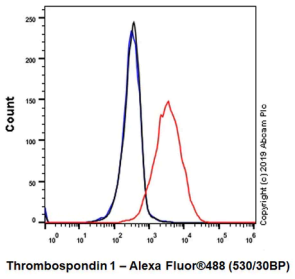
Panel D: anti-CD20 staining B lymphocytes in human spleen.

Nuclear DNA was labeled with DAPI (shown in blue).

The section was incubated in three rounds of staining: in the order of ab267388, ab237721 and ab64088 for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. Image acquisition was performed with Leica SP8 confocal microscope.

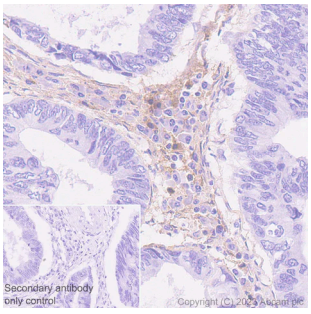
Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Flow Cytometry (Intracellular) - Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388)

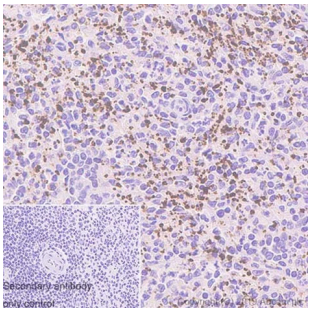
Thrombospondin 1 Flow Cytometry (Intracellular) staining using rabbit Anti-Thrombospondin 1 antibody

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol and sodium azide ab267388.Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized HUVEC (human umbilical vein endothelial cell) cells labelling Thrombospondin 1 with ab267388 at 1/50 (Red) compared with a Rabbit monoclonal IgG (ab172730) / Black isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/2000 dilution was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388)

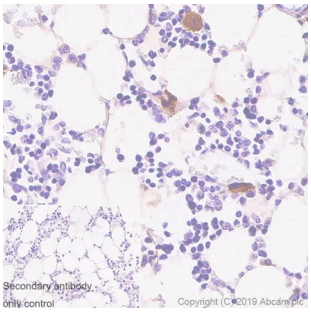
Immunohistochemical analysis of paraffin-embedded Human cervical carcinoma tissue labelling Thrombospondin 1 with ab267388 at 1/5000 (0.101 µg/ml) followed by a Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) at a Ready to use dilution. Positive staining on extracellular matrix of human cervical carcinoma. The section was incubated with ab267388 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) at Ready to use dilution. Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388)

Thrombospondin 1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of human spleen tissue using rabbit Anti-Thrombospondin 1 antibody

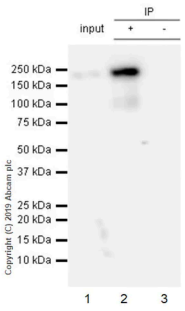
Immunohistochemical analysis of paraffin-embedded human spleen tissue labeling Thrombospondin 1 with ab267388 at 1/5000 dilution (0.1 µg/ml) followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP Polymer). Positive staining on the platelets in the human spleen (PMID: 28239144). The section was incubated with ab267388 for 10 mins at room temperature. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP Polymer). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388)

Thrombospondin 1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of human bone marrow tissue using rabbit Anti-Thrombospondin 1 antibody

Immunohistochemical analysis of paraffin-embedded human bone marrow tissue labeling Thrombospondin 1 with ab267388 at 1/5000 dilution (0.1 µg/ml) followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP Polymer). Positive staining on the megakaryocytes in the human bone marrow (PMID: 28239144). The section was incubated with ab267388 for 10 mins at room temperature. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP Polymer). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.



Immunoprecipitation - Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol and sodium azide (ab267388).

Thrombospondin 1 was immunoprecipitated from 0.35 mg HUVEC (Human umbilical vein endothelial cell) whole cell lysate 10ug with ab267388 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab267388 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366) was used at 1/5000 dilution.

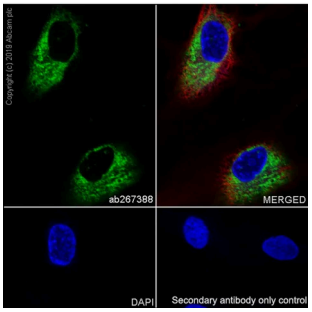
Lane 1: HUVEC (Human umbilical vein endothelial cell) whole cell lysate 10ug
Lane 2: ab267388 IP in HUVEC whole cell lysate
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab267388 in HUVEC whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 8 seconds

All lanes:
Immunoprecipitation - Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388)

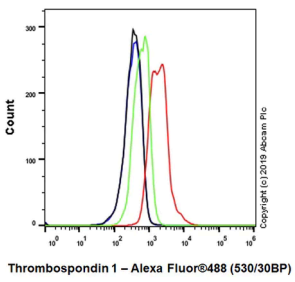
Predicted band size: 129 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388)

Thrombospondin 1 Immunocytochemistry/ Immunofluorescence staining of HUVEC (human umbilical vein endothelial cell) cells using rabbit Anti-Thrombospondin 1 antibody

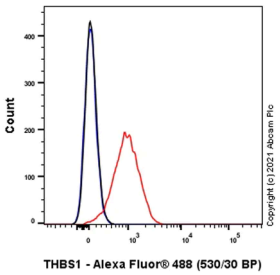
Immunofluorescent analysis of 100% methanol-fixed, permeabilized HUVEC (human umbilical vein endothelial cell) cells labeling Thrombospondin 1 with ab267388 at 1/100 dilution (5 µg/ml), followed by ab150077 AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic staining in HUVEC cell line is observed. ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The nuclear counterstain was DAPI (Blue). Secondary antibody only control: Secondary antibody is ab150077 AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution. 100% methanol fixation is recommended.



Flow Cytometry (Intracellular) - Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388)

Thrombospondin 1 Flow Cytometry (Intracellular) staining using rabbit Anti-Thrombospondin 1 antibody

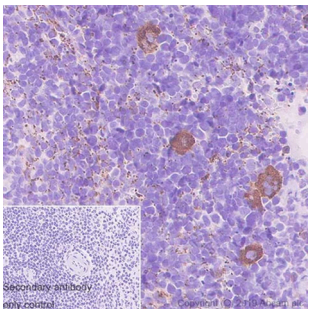
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol and sodium azide ab267388.Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized 3T3-L1 (mouse embryonic fibroblast) starved with 0.4% serum for 24h, then cultured with 15% serum for 6h (Red) / Untreated control (Green) cells labelling Thrombospondin 1 with ab267388 at 1/50 (Red) compared with a Rabbit monoclonal IgG (ab172730) / Black isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/2000 dilution was used as the secondary antibody.



Flow Cytometry (Intracellular) - Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388)

Thrombospondin 1 Flow Cytometry (Intracellular) staining using rabbit Anti-Thrombospondin 1 antibody

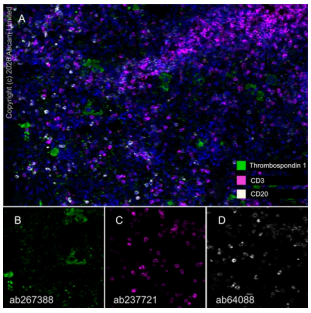
Intracellular Flow Cytometry analysis of PC-12 (Rat adrenal gland pheochromocytoma cell line) cells labeling Thrombospondin 1 with ab267388 at 1/500 dilution (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat Anti-rabbit IgG (Alexa Fluor® 488, ab150081) secondary antibody was used at 1/5000 dilution. Isotype control - Rabbit monoclonal IgG (Black) (ab172730). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388)

Thrombospondin 1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of mouse spleen tissue using rabbit Anti-Thrombospondin 1 antibody

Immunohistochemical analysis of paraffin-embedded mouse spleen tissue labeling Thrombospondin 1 with ab267388 at 1/5000 dilution (0.1 µg/ml) followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP Polymer). Positive staining on the megakaryocytes and platelets in the mouse spleen is observed. The section was incubated with ab267388 for 10 mins at room temperature. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP Polymer). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.



Multiplex immunohistochemistry - Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388)

Thrombospondin 1 Multiplex immunohistochemistry staining of Rat spleen using rabbit Anti-Thrombospondin 1 antibody

Multiplex immunohistochemistry analysis of formalin/PFA-fixed paraffin-embedded rat spleen tissue staining Thrombospondin 1 with ab267388 at a 1/5000 dilution, ab237721 anti-CD3 used at 1/2000 dilution and ab64088 anti-CD20 used at a 1/100 dilution.
Panel A: merged staining of anti-Thrombospondin 1 (green; Opal™520), anti-CD3 (magenta; Opal™690) and anti-CD20 (gray; Opal™570) on rat spleen.

Panel B: anti-Thrombospondin 1 staining megakaryocytes or platelet in rat spleen.

Panel C: anti-CD3 staining T lymphocytes in rat spleen.

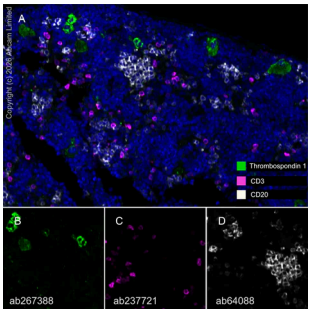
Panel D: anti-CD20 staining B lymphocytes in rat spleen.

Nuclear DNA was labeled with DAPI (shown in blue).

The section was incubated in three rounds of staining: in the order of ab267388, ab237721 and ab64088 for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. Image acquisition was performed with Leica SP8 confocal microscope.

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Multiplex immunohistochemistry - Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388)

Thrombospondin 1 Multiplex immunohistochemistry staining of Mouse spleen using rabbit Anti-Thrombospondin 1 antibody

Multiplex immunohistochemistry analysis of formalin/PFA-fixed paraffin-embedded mouse spleen tissue staining Thrombospondin 1 with ab267388 at a 1/5000 dilution, ab237721 anti-CD3 used at 1/2000 dilution and ab64088 anti-CD20 used at a 1/100 dilution.
Panel A: merged staining of anti-Thrombospondin 1 (green; Opal™520), anti-CD3 (magenta; Opal™690) and anti-CD20 (gray; Opal™570) on mouse spleen.

Panel B: anti-Thrombospondin 1 staining megakaryocytes or platelet in mouse spleen.

Panel C: anti-CD3 staining T lymphocytes in mouse spleen.

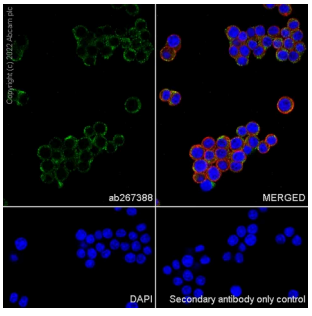
Panel D: anti-CD20 staining B lymphocytes in mouse spleen.

Nuclear DNA was labeled with DAPI (shown in blue).

The section was incubated in three rounds of staining: in the order of ab267388, ab237721 and ab64088 for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. Image acquisition was performed with Leica SP8 confocal microscope.

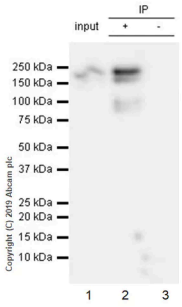
Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Immunocytochemistry/ Immunofluorescence - Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388)

Thrombospondin 1 Immunocytochemistry/ Immunofluorescence staining of PC-12 (rat adrenal gland pheochromocytoma cell) using rabbit Anti-Thrombospondin 1 antibody

Immunofluorescent analysis of 100% Methanol-fixed, 0.1% TritonX-100 permeabilized PC-12 (rat adrenal gland pheochromocytoma cell) cells labelling Thrombospondin 1 with ab267388 at 1/100 (5.3 µg/ml) dilution, followed by ab150077 AlexaFluor® 488 Goat anti-Rabbit secondary antibody at 1/1000 (2 µg/ml) dilution (Green). Confocal image showing cytoplasmic staining in PC-12 cell line. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 (2.5 µg/ml) dilution (Red). The Nuclear counterstain was DAPI (Blue). Secondary antibody only control: Secondary antibody is ab150077 AlexaFluor® 488 Goat anti-Rabbit secondary at 1/1000 (2 µg/ml) dilution.



Immunoprecipitation - Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol and sodium azide (ab267388).

Thrombospondin 1 was immunoprecipitated from 0.35 mg Mouse platelets whole cell lysate 10ug with ab267388 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab267388 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366) was used at 1/5000 dilution.

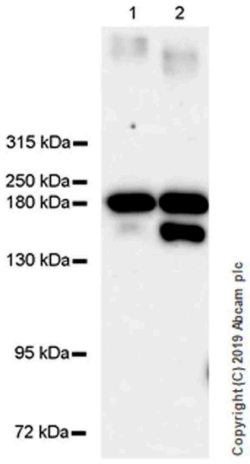
Lane 1: Mouse platelets whole cell lysate 10ug
Lane 2: ab267388 IP in Mouse platelets whole cell lysate
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab267388 in Mouse platelets whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 8 seconds

All lanes:
Immunoprecipitation - Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388)

Predicted band size: 129 kDa



Western blot - Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388)

Thrombospondin 1 Western blot staining using rabbit Anti-Thrombospondin 1 antibody

The full-length TSP 1 (180kDa) and a 160-kDa band, likely to be an TSP 1 isoform or fragment, are observed.
The molecular weight observed is consistent with what has been described in the literature (PMID:1426766, 27588705).

Blocking/Dilution buffer: 5% NFDM/TBST.

All lanes:
Western blot - Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388) at 1/1000 dilution

Lane 1:
HUVEC (human umbilical vein endothelial cell) whole cell lysate at 20 µg

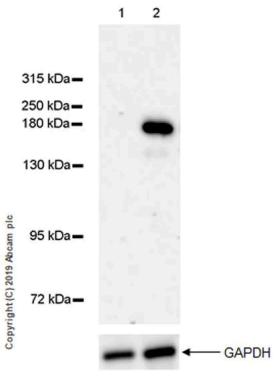
Lane 2:
Mouse platelet lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 129 kDa

Exposure time: 3min



Western blot - Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388)

Thrombospondin 1 Western blot staining using rabbit Anti-Thrombospondin 1 antibody

TSP 1 is a serum-responsive gene. Its express is elevated in quiescent 3T3 with serum addition. The full-length TSP 1 (180kDa) and a 160-kDa band, likely to be an TSP 1 isoform or fragment, are observed.

The molecular weight observed is consistent with what has been described in the literature (PMID:1426766, 27588705).

Blocking/Dilution buffer: 5% NFDM/TBST.

All lanes:
Western blot - Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388) at 1/1000 dilution

Lane 1:
3T3-L1 (mouse embryonic fibroblast) starved with 0.4% serum for 30 hours whole cell lysate at 10 µg

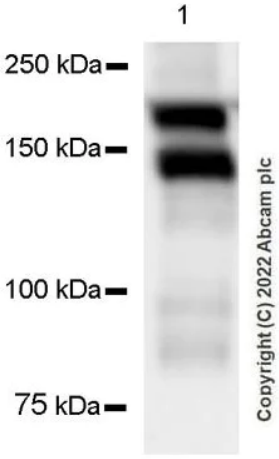
Lane 2:
3T3-L1 starved with 0.4% serum for 24 hours, then cultivated with 15% serum for 6 hours. whole cell lysate at 10 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 129 kDa

Exposure time: 3min



Western blot - Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388)

Thrombospondin 1 Western blot staining of Rat platelet whole cell lysate using rabbit Anti-Thrombospondin 1 antibody

Blocking buffer and concentration : 5% NFDM/TBST Diluting buffer and concentration : 5% NFDM/TBST The full-length TSP 1 (180 kDa) and a ~140 kDa band, likely to be a TSP 1 isoform or fragment, are observed. The molecular weight observed is consistent with what has been described in the literature (PMID:1426766, 27588705).
Lane 1:
Western blot - Anti-Thrombospondin 1 antibody [EPR22927-54] - BSA and Azide free (ab267397) at 1/1000 dilution

Lane 1:
Western blot - Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388) at 1/1000 dilution

All lanes:
Rat platelet whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 129 kDa

Observed band size: 140 kDa, 180 kDa

Exposure time: 5.5s

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.