

# Anti-Thrombospondin 1 antibody [EPR22927-54] ab267388

リコンビナント RabMAb<sup>®</sup>

★★★★★ **1 Abreviews** **7 References** **画像数 15**

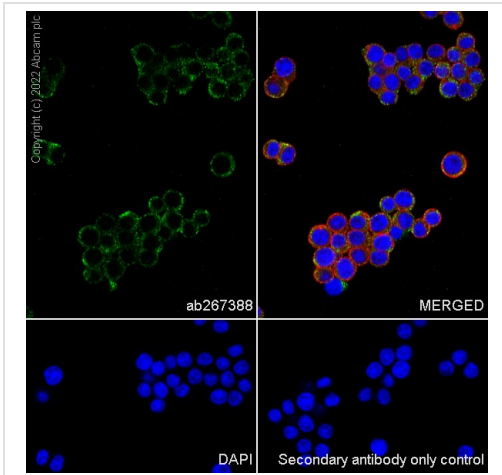
### 製品の概要

製品名	Anti-Thrombospondin 1 antibody [EPR22927-54]
製品の詳細	Rabbit monoclonal [EPR22927-54] to Thrombospondin 1
由来種	Rabbit
アプリケーション	<b>適用あり:</b> Flow Cyt (Intra), WB, IHC-P, ICC/IF, IP
種交差性	<b>交差種:</b> Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: 3T3-L1 starved with 0.4% serum for 24 hours, then cultivated with 15% serum for 6 hours, whole cell lysate. HUVEC and mouse platelet lysates and rat platelet whole cell lysate. IHC-P: Human spleen, human bone marrow, human cervical carcinoma and mouse spleen tissues. ICC/IF: HUVEC cells and PC-12 cells. Flow Cyt (intra): HUVEC, 3T3-L1 and PC-12 cells. IP: HUVEC and mouse platelets lysate.
特記事項	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
精製度	Protein A purified
ポリ/モノ	モノクローナル

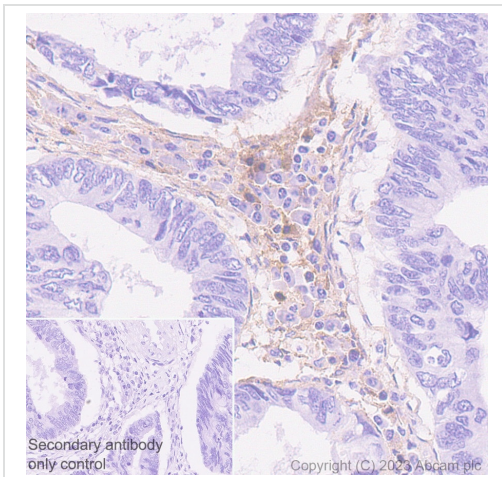




Immunocytochemistry/ Immunofluorescence - Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388)

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.

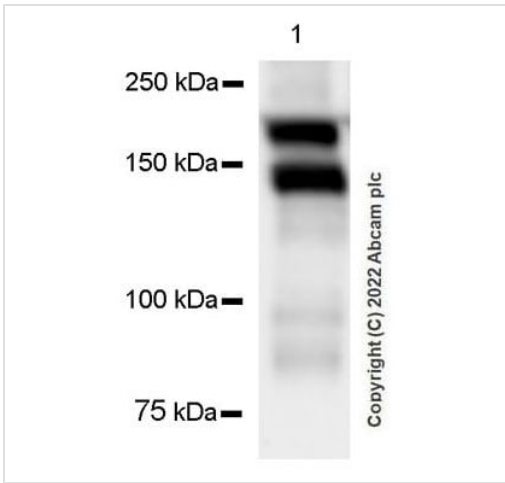


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388)

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.



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

Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388) at 1/1000 dilution + Rat platelet whole cell lysate at 20 µg

**Secondary**

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

**Predicted band size:** 129 kDa

**Observed band size:** 180,140 kDa

**Exposure time:** 0 second

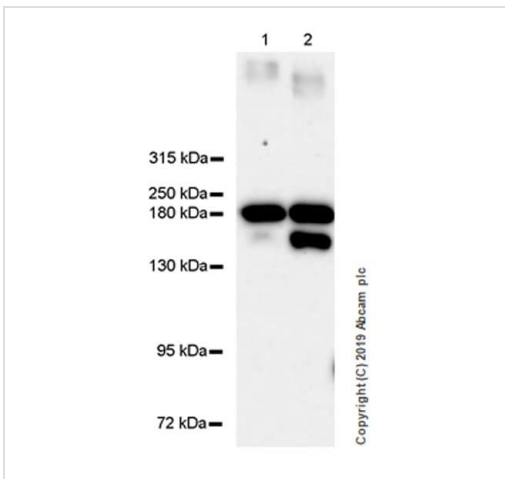
**Blocking buffer and concentration :** 5% NFDm/TBST

**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).

**Exposure time :** 5.5 seconds



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

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

**Lane 1 :** HUVEC (human umbilical vein endothelial cell) whole cell lysate

**Lane 2 :** Mouse platelet lysate

Lysates/proteins at 20 µg per lane.

**Secondary**

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

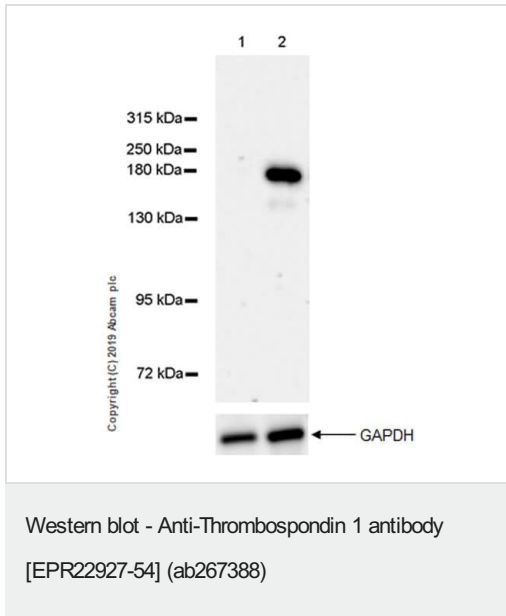
**Predicted band size:** 129 kDa

**Exposure time:** 3 minutes

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 :** 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

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

Lysates/proteins at 10 µg per lane.

#### Secondary

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

**Predicted band size:** 129 kDa

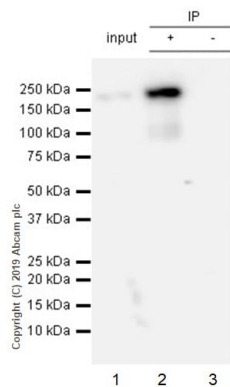
**Exposure time:** 3 minutes

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.



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

Thrombospondin 1 was immunoprecipitated from 0.35 mg HUVEC (human umbilical vein endothelial cell) whole cell lysate 10µg with ab267388 at 1/30 dilution (2µg 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.

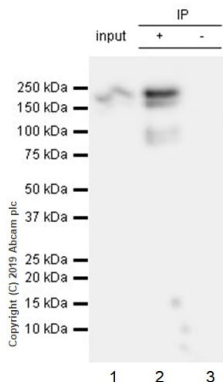
**Lane 1:** HUVEC whole cell lysate 10µg.

**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.



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

Thrombospondin 1 was immunoprecipitated from 0.35 mg mouse platelets whole cell lysate 10µg with ab267388 at 1/30 dilution (2µg 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.

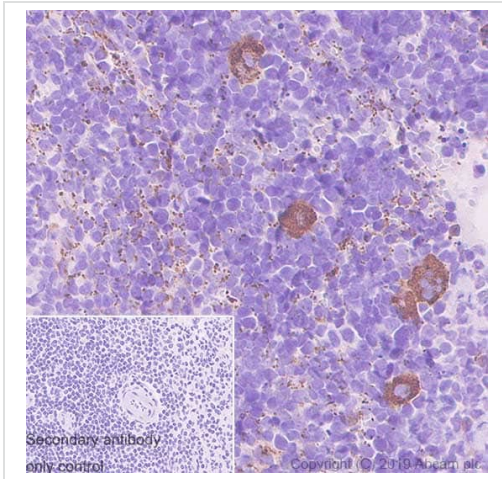
**Lane 1:** Mouse platelets whole cell lysate 10µg.

**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.

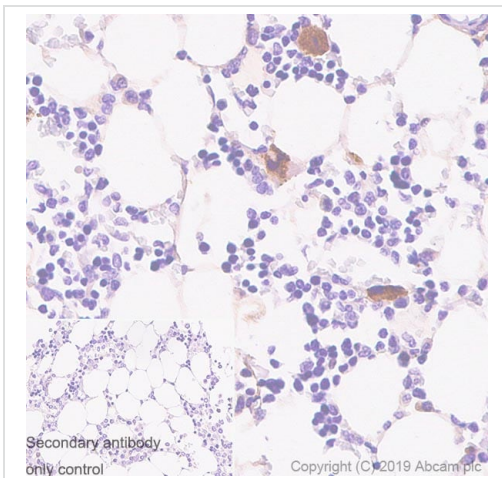


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388)

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.

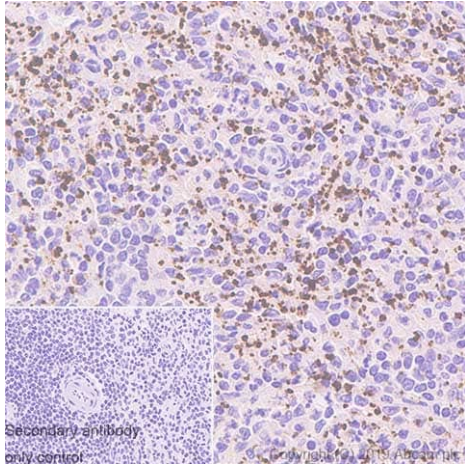


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388)

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.

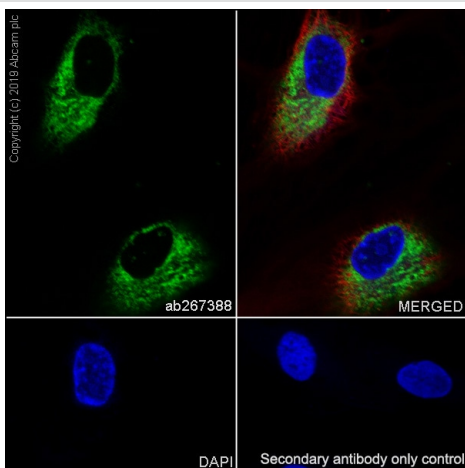


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388)

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.



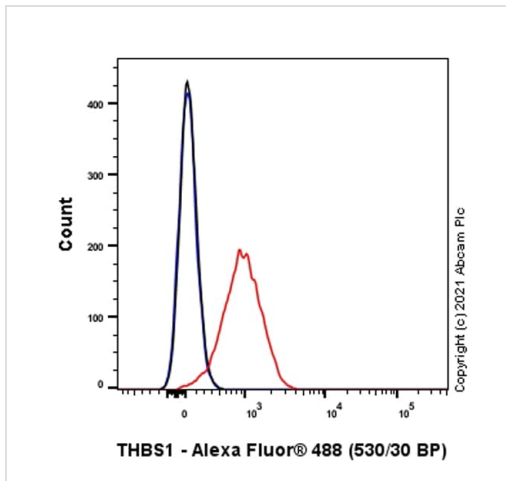
Immunocytochemistry/ Immunofluorescence - Anti-Thrombospondin 1 antibody [EPR22927-54] (ab267388)

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.

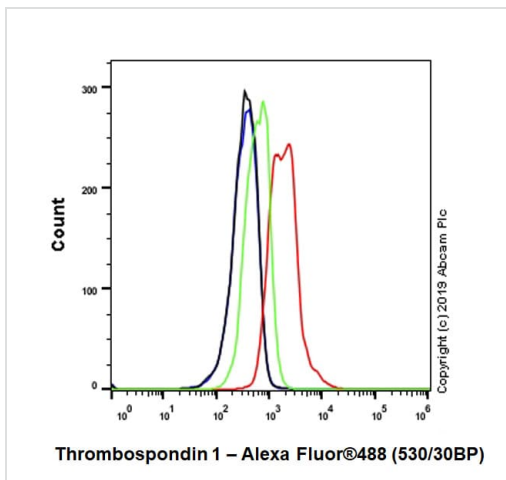
100% methanol fixation is recommended.





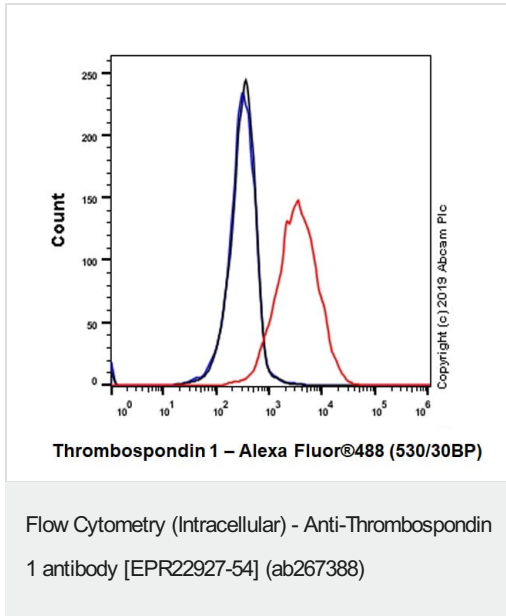
Intracellular Flow Cytometry analysis of PC-12 (Rat adrenal gland pheochromocytoma cell line) cells labeling Thrombospondin 1 with ab267388 at 1/500 dilution (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat Anti-rabbit IgG (Alexa Fluor® 488, [ab150081](#)) 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).

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







Intracellular 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 labeling Thrombospondin 1 with ab267388 at 1/50 (Red) compared with a Rabbit monoclonal IgG ([ab172730](#)) / Black isotype control and an unlabeled 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)



Intracellular flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized HUVEC (human umbilical vein endothelial cell) cells labeling Thrombospondin 1 with ab267388 at 1/50 (Red) compared with a Rabbit monoclonal IgG (**ab172730**) / Black isotype control and an unlabeled 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.

**Why choose a recombinant antibody?**

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

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

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

**Our Abpromise to you: Quality guaranteed and expert technical support**

- Replacement or refund for products not performing as stated on the datasheet

- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.co.jp/abpromise> or contact our technical team.

### **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors