abcam

ab287962

Anti-Von Willebrand Factor antibody [EPR25069-131]

Anti-Von Willebrand Factor antibody [EPR25069-131] (ab287962) is a rabbit monoclonal antibody detecting Von Willebrand Factor in **Western Blot, Flow Cytometry, IHC-P, IHC-Fr, ICC/IF**. Suitable for **Mouse, Rat**.

- Biophysical QC for unrivalled batch-batch consistency

Recombinant | RabMAb | KO Validated | 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	EPR25069-131
Purification technique	Affinity purification Protein A
Specificity	This antibody does not react with cleaved von Willebrand antigen 2 as the immunogen is located at the C-terminus
Concentration	0.561 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Tested

Species	Mouse
Dilution info	-
Notes	-

Expected

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

Not recommended

Species	Human
Dilution info	-
Notes	-

IP

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Mouse
Dilution info	1/500
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.

Notes	-

Not recommended

Species	Human
Dilution info	-
Notes	-

WB

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Species	Rat
Dilution info	1/1000
Notes	-

Not recommended

Species	Human
Dilution info	-
Notes	-

IHC-P

Tested

Species	Mouse
Dilution info	1/50
Notes	This product is not suitable for detection in IHC-P using a fluorescent secondary antibody. Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Rat

Dilution info	1/50
Notes	This product is not suitable for detection in IHC-P using a fluorescent secondary antibody.

Not recommended

Species	Human
Dilution info	-
Notes	-

IHC-Fr

Tested

Species	Rat
Dilution info	1/500
Notes	-

Species	Mouse
Dilution info	1/500
Notes	-

Not recommended

Species	Human
Dilution info	-
Notes	-

Target data

See full target information Vwf

Function	Important in the maintenance of hemostasis, it promotes adhesion of platelets to the sites of vascular injury by forming a molecular bridge between sub-endothelial collagen matrix and platelet-surface receptor complex GPIb-IX-V. Also acts as a chaperone for coagulation factor VIII, delivering it to the site of injury, stabilizing its heterodimeric structure and protecting it from premature clearance from plasma.

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-Von Willebrand Factor antibody [EPR25069-131] (ab287962) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Flow Cyt), Immunohistochemistry (IHC-P), Immunohistochemistry (IHC-Fr), Immunocytochemistry/immunofluorescence (ICC/IF) in Mouse, Rat samples.

What is the molecular weight of Von Willebrand Factor?
Anti-Von Willebrand Factor [EPR25069-131] (ab287962) specifically detects a band for Von Willebrand Factor (UniProt: Q8CIZ8) at a molecular weight of 309kDa.

Other related products
We have a range of other formats of antibody clone [EPR25069-131] also available for your convenience: ab287962, Carrier free - ab287967, Alexa Fluor® 647 - ab307377, Alexa Fluor® 488 - ab307389

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.

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.

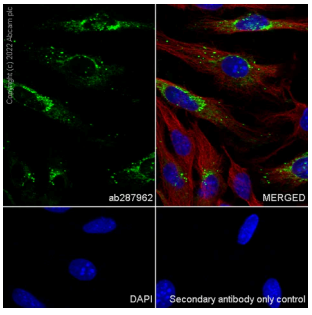
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

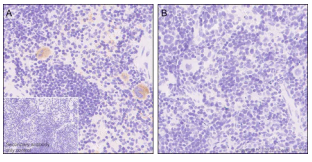
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17 product images



Immunocytochemistry/ Immunofluorescence - Anti-Von Willebrand Factor antibody [EPR25069-131] (ab287962)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized bEnd.3 (mouse brain endothelial cell) cells labelling Von Willebrand Factor with ab287962 at 1/100 dilution (5.58 µg/ml) followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed secondary antibody used at 1/1000 dilution (2µg/ml) (Green). ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (2.5µg/ml)(Red). The Nuclear counterstain was DAPI (Blue). Confocal image showing cytoplasmic staining in bEnd.3 cell line. Image was taken with a confocal microscope(Leica-Microsystems, TCS SP8).

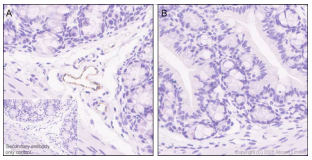


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Von Willebrand Factor antibody [EPR25069-131] (ab287962)

Von Willebrand Factor Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Von Willebrand Factor antibody

Immunohistochemical analysis of paraffin-embedded (A) Spleen tissue from wild-type C57BL/6J mice, and (B) Spleen tissue from Vwf knockout mice with ab287962 at 1/50 (11.22 µg/ml) dilution. Positive staining on megakaryocyte of (A) Spleen tissue from wild-type C57BL/6J mice, and no staining on megakaryocyte of (B) Spleen tissue from Von Willebrand Factor knockout mice. The primary antibody was incubated for 30 mins at room temperature. Incubate slides with 3% Hydrogen Peroxide for 10 mins at room temperature after secondary antibody incubation to reduce the background. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.
Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.

The tissue samples were kindly provided by GemPharmatech. C57BL/6JGpt wildtype mice and Vwf-KO homozygous mice (Strain ID: T028359).

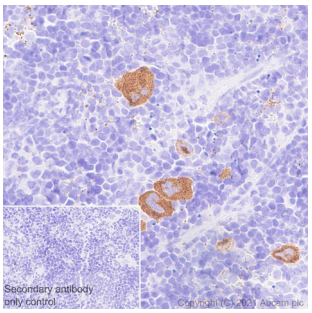


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Von Willebrand Factor antibody [EPR25069-131] (ab287962)

Von Willebrand Factor Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Von Willebrand Factor antibody

Immunohistochemical analysis of paraffin-embedded (A) Colon tissue from wild-type C57BL/6J mice, and (B) Colon tissue from Vwf knockout mice with ab287962 at 1/50 (11.22 µg/ml) dilution. endothelial cells of (A) Colon tissue from wild-type C57BL/6J mice, and no staining on endothelial cells of (B) Colon tissue from Von Willebrand Factor knockout mice. The primary antibody was incubated for 30 mins at room temperature. Incubate slides with 3% Hydrogen Peroxide for 10 mins at room temperature after secondary antibody incubation to reduce the background. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.
Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.

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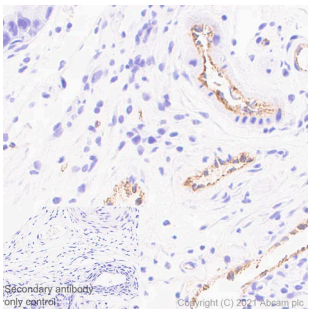


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Von Willebrand Factor antibody [EPR25069-131] (ab287962)

Von Willebrand Factor Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Von Willebrand Factor antibody

Immunohistochemical analysis of paraffin-embedded Mouse spleen tissue labelling VonWillebrand Factor with ab287962 at 1/50 (11.1 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond Polymer Refine Detection) . Cytoplasmic staining on megakaryocyte and platelets of mouse spleen. The section was incubated with ab287962 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 a ready to use LeicaDS9800 (Bond Polymer Refine Detection) .

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins

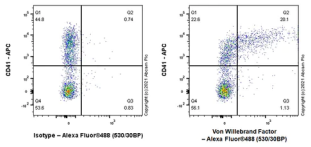


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Von Willebrand Factor antibody [EPR25069-131] (ab287962)

Von Willebrand Factor Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Von Willebrand Factor antibody

Immunohistochemical analysis of paraffin-embedded Mouse pancreas tumor tissue labelling VonWillebrand Factor with ab287962 at 1/50 (11.1 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond Polymer Refine Detection) . Cytoplasmic staining on endothelial of mouse pancreas tumor. The section was incubated with ab287962 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 a ready to use LeicaDS9800 (Bond Polymer Refine Detection) .

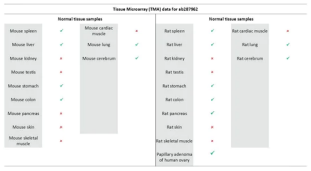
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins



Flow Cytometry - Anti-Von Willebrand Factor antibody [EPR25069-131] (ab287962)

Von Willebrand Factor Flow Cytometry staining using rabbit Anti-Von Willebrand Factor antibody

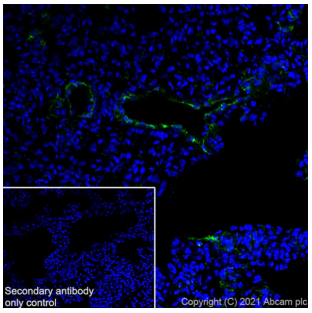
Flow cytometric analysis of Mouse blood cells cells labelling VonWillebrand Factor with ab287962 at 1/500 dilution (0.1ug)(Right) compared with a Rabbit monoclonal IgG (ab172730) (Left) isotype control. Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/2000 dilution was used as the secondary antibody. Cells were stained with rabbit IgG or ab287962. Then stained with anti-CD41 conjugated to APC.Gated on viable cells.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Von Willebrand Factor antibody [EPR25069-131] (ab287962)

Von Willebrand Factor Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Von Willebrand Factor antibody

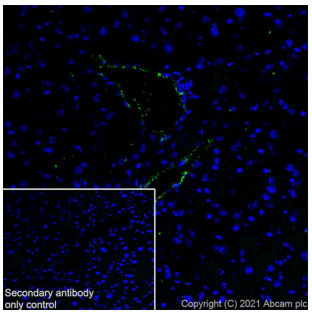
Tissue Microarrays stained for Anti-Von Willebrand Factor antibody [EPR25069-131] using ab287962 in immunohistochemical analysis. This table provides a detailed overview of positive (tick mark) and negative (cross mark) staining per sample type tested. The sections were pre-treated using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) for 20 minutes. The sections were incubated with ab287962 for 30 mins at room temperature followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) . The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



Immunohistochemistry (Frozen sections) - Anti-Von Willebrand Factor antibody [EPR25069-131] (ab287962)

Von Willebrand Factor Immunohistochemistry (Frozen sections) staining using rabbit Anti-Von Willebrand Factor antibody

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Rat lung (fresh) tissue labeling VonWillebrand Factor with ab287962 at 1/500 (1.11 ug/ml) dilution followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 ug/mL) dilution (Green). Positive staining on the vascular endothelial cells in rat lung is observed. The nuclear counterstain was DAPI (Blue).
Secondary antibody control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 ug/mL) dilution.

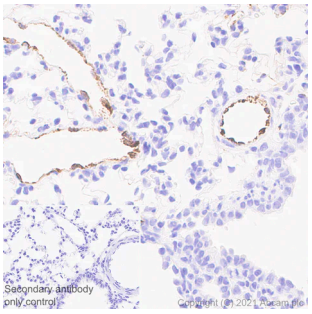


Immunohistochemistry (Frozen sections) - Anti-Von Willebrand Factor antibody [EPR25069-131] (ab287962)

Von Willebrand Factor Immunohistochemistry (Frozen sections) staining using rabbit Anti-Von Willebrand Factor antibody

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Mouse liver (fresh) tissue labeling VonWillebrand Factor with ab287962 at 1/500 (1.11 ug/ml) dilution followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 ug/mL) dilution (Green). Positive staining on the endothelial cells in mouse liver is observed. The nuclear counterstain was DAPI (Blue).
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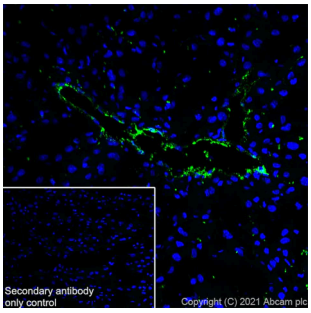


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Von Willebrand Factor antibody [EPR25069-131] (ab287962)

Von Willebrand Factor Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Von Willebrand Factor antibody

Immunohistochemical analysis of paraffin-embedded Rat lung tissue labelling VonWillebrand Factor with ab287962 at 1/50 (11.1 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond Polymer Refine Detection) . Cytoplasmic staining on endothelial cells of rat lung. The section was incubated with ab287962 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 a ready to use LeicaDS9800 (Bond Polymer Refine Detection) .

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins

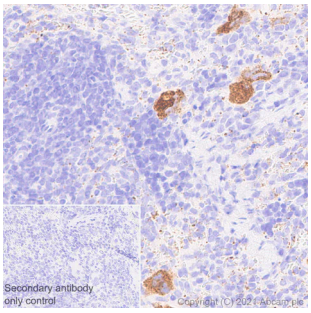


Immunohistochemistry (Frozen sections) - Anti-Von Willebrand Factor antibody [EPR25069-131] (ab287962)

Von Willebrand Factor Immunohistochemistry (Frozen sections) staining using rabbit Anti-Von Willebrand Factor antibody

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Rat liver (fresh) tissue labeling VonWillebrand Factor with ab287962 at 1/500 (1.11 ug/ml) dilution followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 ug/mL) dilution (Green). Positive staining on the endothelial cells in rat liver is observed. The nuclear counterstain was DAPI (Blue).
Secondary antibody control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbedat 1/1000 (2 ug/mL) dilution.

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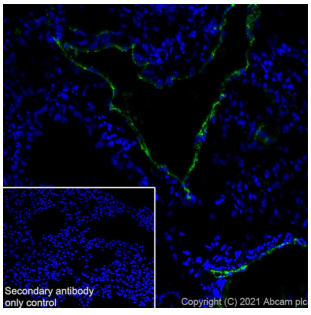


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Von Willebrand Factor antibody [EPR25069-131] (ab287962)

Von Willebrand Factor Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Von Willebrand Factor antibody

Immunohistochemical analysis of paraffin-embedded Rat spleen tissue labelling VonWillebrand Factor with ab287962 at 1/50 (11.1 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond Polymer Refine Detection) . Cytoplasmic staining on megakaryocyte and platelets of rat spleen. The section was incubated with ab287962 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 a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) .

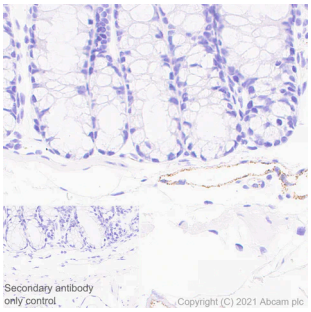
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins



Immunohistochemistry (Frozen sections) - Anti-Von Willebrand Factor antibody [EPR25069-131] (ab287962)

Von Willebrand Factor Immunohistochemistry (Frozen sections) staining using rabbit Anti-Von Willebrand Factor antibody

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Mouse lung (fresh) tissue labeling VonWillebrand Factor with ab287962 at 1/500 (1.11 ug/ml) dilution followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 ug/mL) dilution (Green). Positive staining on the vascular endothelial cells in mouse lung is observed. The nuclear counterstain was DAPI (Blue).
Secondary antibody control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbedat 1/1000 (2 ug/mL) dilution.

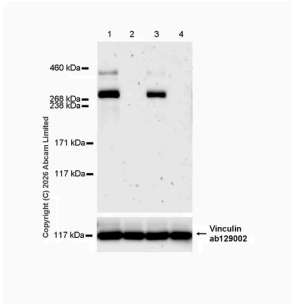


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Von Willebrand Factor antibody [EPR25069-131] (ab287962)

Von Willebrand Factor Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Von Willebrand Factor antibody

Immunohistochemical analysis of paraffin-embedded Mouse colon tissue labelling VonWillebrand Factor with ab287962 at 1/50 (11.1 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond Polymer Refine Detection) . Cytoplasmic staining on endothelial cells of mouse colon. The section was incubated with ab287962 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 a ready to use LeicaDS9800 (Bond Polymer Refine Detection) .

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins



Western blot - Anti-Von Willebrand Factor antibody [EPR25069-131] (ab287962)

Von Willebrand Factor Western blot staining using rabbit Anti-Von Willebrand Factor antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST.
In Western blot, Anti-Vinculin antibody [EPR8185] - Loading Control (ab129002) staining at 1/5000 dilution.

The tissue samples were kindly provided by GemPharmatech. C57BL/6JGpt wildtype mice and Vwf-KO homozygous mice (Strain ID: T028359).

All lanes:
Western blot - Anti-Von Willebrand Factor antibody [EPR25069-131] (ab287962) at 1/1000 dilution

Lane 1:
Wild-type mouse spleen tissue lysate (male) at 20 µg

Lane 2:
VWF knockout mouse spleen tissue lysate (male) at 20 µg

Lane 3:
Wild-type mouse spleen tissue lysate (female) at 20 µg

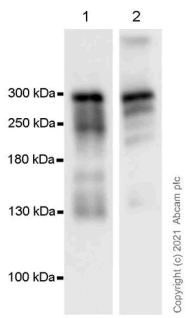
Lane 4:
VWF knockout mouse spleen tissue lysate (female) at 20 µg

Secondary

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

Observed band size: 309 kDa, 124 kDa

Exposure time: 180s



Western blot - Anti-Von Willebrand Factor antibody [EPR25069-131] (ab287962)

Von Willebrand Factor Western blot staining using rabbit Anti-Von Willebrand Factor antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBSTBands below 300kDa were VWF cleavage fragments(PMID: 21909423)
Exposure time: 70 seconds

All lanes:
Western blot - Anti-Von Willebrand Factor antibody [EPR25069-131] (ab287962) at 1/1000 dilution

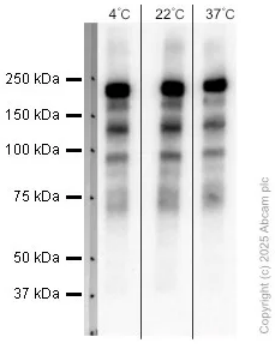
Lane 1:
Mouse platelet lysate

Lane 2:
Rat platelet lysate

Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ab97051) at 1/100000 dilution

Predicted band size: 309 kDa



Western blot - Anti-Von Willebrand Factor antibody [EPR25069-131] (ab287962)

Von Willebrand Factor Western blot staining of Rat platelet lysate using rabbit Anti-Von Willebrand Factor antibody

This blot was produced using 6% SDS-PAGE containing 15 µg of rat platelet lysate per lane at 150V for 2hrs before being transferred onto a 0.45 µm PVDF membrane at 72V for 2hrs. The membrane was then blocked for 1hr using 5% NFDM/TBST, then incubated with ab287962 (1/1000) at room temperature for 1hr. After being washed three times in TBST, the membrane was incubated with Peroxidase conjugated goat anti-rabbit IgG (H+L) (ab97051) at 1/100,000 dilution for 1hr at room temperature. The membrane was washed three times again. Then the signal was developed using the ECL technique.

ab287962 was stored at a range of temperatures (+4°C, +22°C, +37°C) for 1 week before being tested in WB. The image shows the band intensity remains relatively constant across all storage temperatures, demonstrating that antibody activity is not affected under these conditions. This data was generated as part of a structured antibody stability study supporting Abcam’ s transition from cold⊠chain to ambient shipping.

All lanes:
Western blot - Anti-Von Willebrand Factor antibody [EPR25069-131] (ab287962) at 1/1000 dilution

All lanes:
Rat platelet lysate at 15 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051)

Exposure time: 100s

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