abcam

ab325388

Anti-Annexin V/ANXA5 antibody [RM1317]

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	Multiclonal
Immunogens	The exact immunogen used to generate this antibody is proprietary information.
Clone number	RM1317
Purification technique	Affinity purification Protein A
Specificity	Unsuitable for mouse ICC, FC and IP, and rat ICC.
Concentration	0.518 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Human
Dilution info	1/5000
Notes	-

Species	Mouse
Dilution info	1/1000 - 1/5000
Notes	-

Species	Rat
Dilution info	1/1000 - 1/5000
Notes	-

IHC-P

Tested

Species	Human
Dilution info	1/10000 - 1/20000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Mouse
Dilution info	1/20000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Rat
Dilution info	1/10000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

IP

Tested

Species	Human
Dilution info	1/30
Notes	-

Expected

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

Not recommended

Species	Mouse
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/2000
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/500
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.

Notes	-

Not recommended

Species	Mouse
Dilution info	-
Notes	-

Target data

See full target information ANXA5

Function	This protein is an anticoagulant protein that acts as an indirect inhibitor of the thromboplastin-specific complex, which is involved in the blood coagulation cascade.

Storage

Shipped at conditions	Blue Ice
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

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 recombinant multiclonals?
Recombinant multiclonals are a mixture of recombinant antibodies co-expressed from a library of heavy and light chains. They offer several advantages including:

- The sensitivity of polyclonal antibodies by recognising multiple epitopes

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

View our range of recombinant multiclonal 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

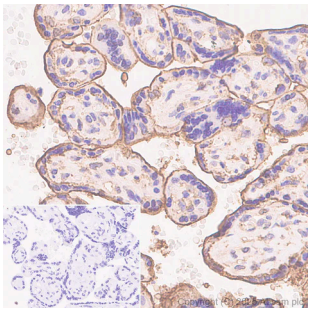
We do not recommend this combination. It is not covered by our product promise.

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.

17 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Annexin V/ANXA5 antibody [RM1317] (ab325388)

Annexin V/ANXA5 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human placenta using rabbit Anti-Annexin V/ANXA5 antibody

Immunohistochemical analysis of paraffin-embedded Human placenta tissue labeling Annexin V/ANXA5 with ab325388 at 1/20000 (0.026 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

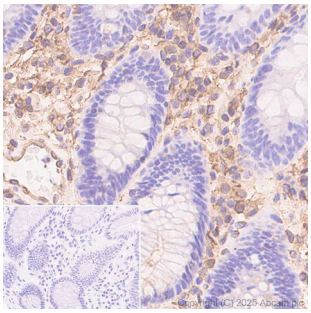
Positive staining on human placenta. The primary antibody was incubated for 30 mins at room temperature.

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 was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Annexin V/ANXA5 antibody [RM1317] (ab325388)

Annexin V/ANXA5 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human colon using rabbit Anti-Annexin V/ANXA5 antibody

Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling Annexin V/ANXA5 with ab325388 at 1/20000 (0.026 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

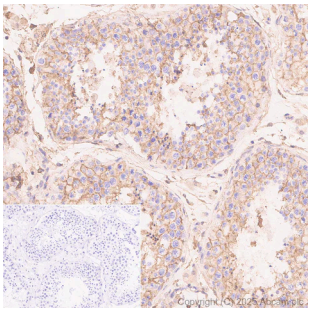
Positive staining on human colon. The primary antibody was incubated for 30 mins at room temperature.

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 was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Annexin V/ANXA5 antibody [RM1317] (ab325388)

Annexin V/ANXA5 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human testis using rabbit Anti-Annexin V/ANXA5 antibody

Immunohistochemical analysis of paraffin-embedded Human testis tissue labeling Annexin V/ANXA5 with ab325388 at 1/20000 (0.026 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

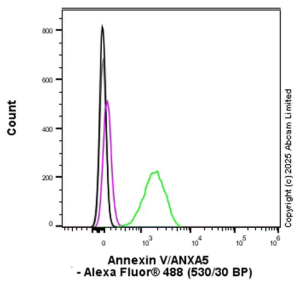
Positive staining on human testis. The primary antibody was incubated for 30 mins at room temperature.

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 was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins

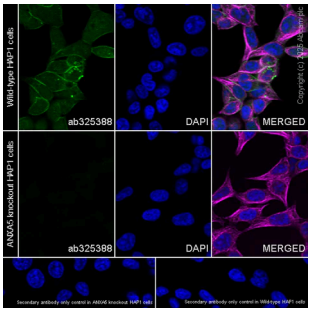


Flow Cytometry (Intracellular) - Anti-Annexin V/ANXA5 antibody [RM1317] (ab325388)

Annexin V/ANXA5 Flow Cytometry (Intracellular) staining using rabbit Anti-Annexin V/ANXA5 antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Parental HAP1(HOWT01) (human chronic myelogenous leukemia near-haploid cell) (Green and black) and ANXA5 KO HAP1(HO010326) (Magenta and grey) cells labelling Annexin V/ANXA5 with ab325388 at 1/500 dilution (0.1ug) / Green and magenta compared with a Rabbit monoclonal IgG (ab172730) / Black and Grey isotype control.

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-Annexin V/ANXA5 antibody [RM1317] (ab325388)

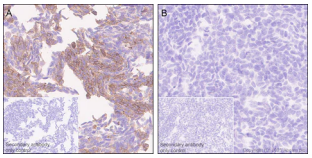
Annexin V/ANXA5 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Annexin V/ANXA5 antibody

Immunofluorescent analysis of 100% methanol-fixed, 0.1% TritonX-100 permeabilized ANXA5 KO HAP1(ANXA5 knockout human chronic myelogenous leukemia near-haploid cell); Wildtype HAP 1 (human chronic myelogenous leukemia near-haploid cell) cells labelling Annexin V/ANXA5 with ab325388 at 1/2000 (0.259 µg/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (Green).

Confocal image showing mainly membranous and weak nuclear, cytoplasmic staining in wildtype HAP1 cells (shown in green), showing no staining in ANXA5 knockout HAP1 cells. The counterstain was observed in magenta. Nuclear DNA was labelled with DAPI (shown in blue). Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Magenta).

Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Annexin V/ANXA5 antibody [RM1317] (ab325388)

Annexin V/ANXA5 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Annexin V/ANXA5 antibody

Immunohistochemical analysis of paraffin-embedded (A) Wild-type HAP1 (human chronic myelogenous leukemia near-haploid cell) cell pellet and (B) ANXA5 knockout HAP1 cell pellet labeling Annexin V/ANXA5 with ab325388 at 1/10000 (0.052 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on Wild-type HAP1 (human chronic myelogenous leukemia near-haploid cell) cell pellet (Image A) and no staining on ANXA5 knockout HAP1 cell pellet (Image B).

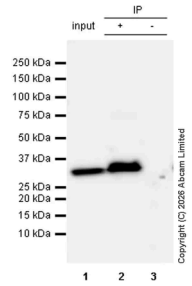
The primary antibody was incubated for 30 mins at room temperature.

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 was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Immunoprecipitation - Anti-Annexin V/ANXA5 antibody [RM1317] (ab325388)

Annexin V/ANXA5 was immunoprecipitated from 0.35 mg 293T (human embryonic kidney epithelial cell) whole cell lysate with ab325388 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab325388 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(ab131366) was used at 1/5000 dilution.

Lane 1: 293T (human embryonic kidney epithelial cell) whole cell lysate
Lane 2: ab325388 at 1/30 IP in 293T (human embryonic kidney epithelial cell) whole cell lysate
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab325388 in 293T whole cell lysate

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

Exposure time: 10 seconds.

All lanes:
Immunoprecipitation - Anti-Annexin V/ANXA5 antibody [RM1317] (ab325388) at 1/1000 dilution

Lane 1:
293T (human embryonic kidney epithelial cell) whole cell lysate at 10 µg

Lane 2:
ab325388 at 1/30 IP in 293T (human embryonic kidney epithelial cell) whole cell lysate

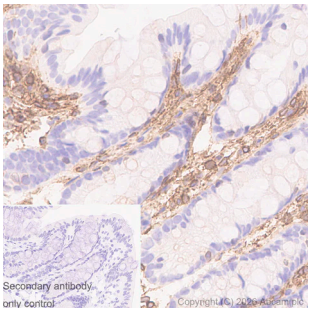
Lane 3:
Rabbit monoclonal IgG (ab172730) instead of ab325388 in 293Twhole cell lysate

Secondary

All lanes:
Immunoprecipitation - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/5000 dilution

Observed band size: 35 kDa

Exposure time: 10s



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Annexin V/ANXA5 antibody [RM1317] (ab325388)

Annexin V/ANXA5 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Rat colon using rabbit Anti-Annexin V/ANXA5 antibody

Immunohistochemical analysis of paraffin-embedded Rat colon tissue labeling Annexin V/ANXA5 with ab325388 at 1/10000 (0.052 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

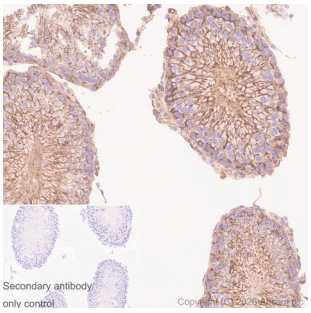
Positive staining on rat colon. The primary antibody was incubated for 30 mins at room temperature.

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 was performed with Citrate buffer (pH 6.0, Epitope Retrieval Solution 1) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Annexin V/ANXA5 antibody [RM1317] (ab325388)

Annexin V/ANXA5 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Rat testis using rabbit Anti-Annexin V/ANXA5 antibody

Immunohistochemical analysis of paraffin-embedded Rat testis tissue labeling Annexin V/ANXA5 with ab325388 at 1/10000 (0.052 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

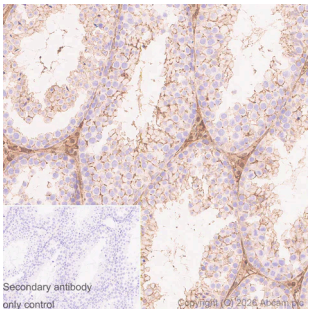
Positive staining on rat testis. The primary antibody was incubated for 30 mins at room temperature.

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 was performed with Citrate buffer (pH 6.0, Epitope Retrieval Solution 1) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Annexin V/ANXA5 antibody [RM1317] (ab325388)

Annexin V/ANXA5 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse testis using rabbit Anti-Annexin V/ANXA5 antibody

Immunohistochemical analysis of paraffin-embedded Mouse testis tissue labeling Annexin V/ANXA5 with ab325388 at 1/20000 (0.052 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

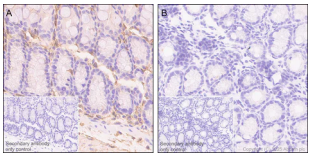
Positive staining on mouse testis. The primary antibody was incubated for 30 mins at room temperature.

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 was performed with Citrate buffer (pH 6.0, Epitope Retrieval Solution 1) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Annexin V/ANXA5 antibody [RM1317] (ab325388)

Annexin V/ANXA5 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Annexin V/ANXA5 antibody

Immunohistochemical analysis of paraffin-embedded (A) Colon tissue from wild-type C57BL/6J mice and (B) Colon tissue from ANXA5 knockout mice tissue labeling Annexin V/ANXA5 with ab325388 at 1/20000 (0.026 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on (A) colon tissue from wild-type C57BL/6J mice and no staining on (B) colon tissue from ANXA5 knockout mice.

The primary antibody was incubated for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

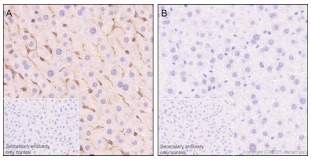
The tissue samples were kindly provided by GemPharmatech. C57BL/6JGpt wildtype mice and Anxa5-KO homozygous mice (Strain ID : T028565)

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

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-Annexin V/ANXA5 antibody [RM1317] (ab325388)

Annexin V/ANXA5 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Annexin V/ANXA5 antibody

Immunohistochemical analysis of paraffin-embedded (A) Liver tissue from wild-type C57BL/6J mice and (B) Liver tissue from ANXA5 knockout mice tissue labeling Annexin V/ANXA5 with ab325388 at 1/20000 (0.026 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on (A) liver tissue from wild-type C57BL/6J mice and no staining on (B) liver tissue from ANXA5 knockout mice.

The primary antibody was incubated for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

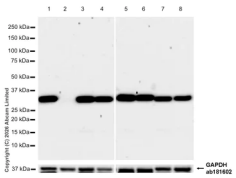
The tissue samples were kindly provided by GemPharmatech. C57BL/6JGpt wildtype mice and Anxa5-KO homozygous mice (Strain ID : T028565)

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

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

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Western blot - Anti-Annexin V/ANXA5 antibody [RM1317] (ab325388)

Annexin V/ANXA5 Western blot staining using rabbit Anti-Annexin V/ANXA5 antibody

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

Performed under reducing conditions.

In Western blot, ab325388 was shown to bind specifically to ANXA5. Target of interest was observed at 35 kDa in wild-type HAP1 cell lysates (lane 1) with no signal observed at this size in ANXA5 knockout cell line (lane 2).

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) (1:200000) (36KDa).

All lanes:
Western blot - Anti-Annexin V/ANXA5 antibody [RM1317] (ab325388) at 1/5000 dilution

Lane 1:
Wild-type HAP1(human chronic myelogenous leukemia near-haploid cell) whole cell lysate at 10 µg

Lane 2:
ANXA5 knockout HAP1 whole cell lysate at 10 µg

Lane 3:
HeLa (human cervical adenocarcinoma epithelial cell) whole cell lysate at 10 µg

Lane 4:
293T (human embryonic kidney epithelial cell) whole cell lysate at 10 µg

Lane 5:
NIH/3T3 (mouse embryonic fibroblast) whole cell lysate at 10 µg

Lane 6:
C2C12 (mouse myoblast) whole cell lysate at 10 µg

Lane 7:
C6 (rat glial tumor glial cell) whole cell lysate at 10 µg

Lane 8:
PC-12 (rat adrenal gland pheochromocytoma cell) whole cell lysate at 10 µg

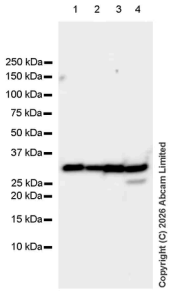
Secondary

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

Performed under reducing conditions.

Observed band size: 35 kDa, 36 kDa

Exposure time: 59s



Western blot - Anti-Annexin V/ANXA5 antibody [RM1317] (ab325388)

Annexin V/ANXA5 Western blot staining using rabbit Anti-Annexin V/ANXA5 antibody

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

All lanes:
Western blot - Anti-Annexin V/ANXA5 antibody [RM1317] (ab325388) at 1/5000 dilution

Lane 1:
Human cerebellum tissue lysate at 20 µg

Lane 2:
Human liver tissue lysate at 20 µg

Lane 3:
Human testis tissue lysate at 20 µg

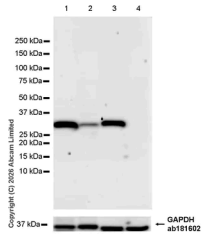
Lane 4:
Human spleen tissue lysate at 20 µg

Secondary

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

Observed band size: 35 kDa

Exposure time: 10s



Western blot - Anti-Annexin V/ANXA5 antibody [RM1317] (ab325388)

Annexin V/ANXA5 Western blot staining using rabbit Anti-Annexin V/ANXA5 antibody

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

The tissue samples in lane 3-4 were kindly provided by GemPharmatech. C57BL/6JGpt wildtype mice and ANXA5-KO homozygous mice (Strain ID : T028565).

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) (1:200000) (36KDa).

All lanes:
Western blot - Anti-Annexin V/ANXA5 antibody [RM1317] (ab325388) at 1/1000 dilution

Lane 1:
Rat colon tissue lysate at 20 µg

Lane 2:
Rat liver tissue lysate at 20 µg

Lane 3:
Wild-type mouse liver tissue lysate at 10 µg

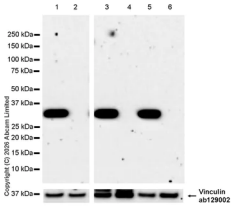
Lane 4:
ANXA5 knockout mouse liver tissue lysate at 10 µg

Secondary

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

Observed band size: 35 kDa, 36 kDa

Exposure time: 48s



Western blot - Anti-Annexin V/ANXA5 antibody [RM1317] (ab325388)

Annexin V/ANXA5 Western blot staining using rabbit Anti-Annexin V/ANXA5 antibody

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

The tissue samples were kindly provided by GemPharmatech. C57BL/6JGpt wildtype mice and ANXA5-KO homozygous mice (Strain ID : T028565)

In Western blot, Anti-Vinculin antibody [EPR8185] (ab129002)(1/5000)(124KDa).

All lanes:
Western blot - Anti-Annexin V/ANXA5 antibody [RM1317] (ab325388) at 1/5000 dilution

Lane 1:
Wild-type mouse heart tissue lysate at 10 µg

Lane 2:
ANXA5 knockout mouse heart tissue lysate at 10 µg

Lane 3:
Wild-type mouse colon tissue lysate at 10 µg

Lane 4:
ANXA5 knockout mouse colon tissue lysate at 10 µg

Lane 5:
Wild-type mouse kidney tissue lysate at 10 µg

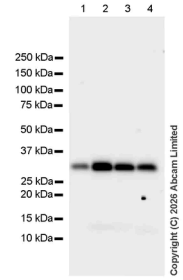
Lane 6:
ANXA5 knockout mouse kidney tissue lysate at 10 µg

Secondary

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

Observed band size: 35 kDa, 124 kDa

Exposure time: 59s



Western blot - Anti-Annexin V/ANXA5 antibody [RM1317] (ab325388)

Annexin V/ANXA5 Western blot staining using rabbit Anti-Annexin V/ANXA5 antibody

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

All lanes:
Western blot - Anti-Annexin V/ANXA5 antibody [RM1317] (ab325388) at 1/5000 dilution

Lane 1:
Rat brain tissue lysate at 20 µg

Lane 2:
Rat heart tissue lysate at 20 µg

Lane 3:
Rat kidney tissue lysate at 20 µg

Lane 4:
Rat spleen tissue lysate at 20 µg

Secondary

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

Observed band size: 35 kDa

Exposure time: 15s

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