abcam

ab300577

Anti-Annexin-11/ANXA11 antibody [EPR26004-63]

Recombinant | RabMAb | 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	EPR26004-63
Purification technique	Affinity purification Protein A
Concentration	0.491 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	1/30
Notes	-

Expected

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

Not recommended

Species	Transfected cell line
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/50
Notes	-

Expected

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

Not recommended

Species	Transfected cell line
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Rat

Dilution info	1/50
Notes	-

Species	Human
Dilution info	1/50
Notes	-

Expected

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

Not recommended

Species	Transfected cell line
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Rat, Mouse, Human, Transfected cell line
Dilution info	-
Notes	-

WB

Tested

Species	Rat
Dilution info	1/1000
Notes	-

Species	Mouse
Dilution info	1/1000

Notes	-

Species	Human
Dilution info	1/1000
Notes	-

Species	Transfected cell line
Dilution info	1/1000
Notes	-

Target data

See full target information ANXA11

Function	Binds specifically to calcyclin in a calcium-dependent manner (By similarity). Required for midbody formation and completion of the terminal phase of cytokinesis.

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

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.

Supplementary info

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

Activity summary	Annexin-11 also known as ANXA11 or annexin A11 is a calcium-dependent phospholipid-binding protein with a molecular mass of approximately 56 kDa. It belongs to the annexin family and functions through interactions with membrane phospholipids in a calcium-dependent manner. Annexin A11 is expressed in various tissues including the brain liver and spleen. Molecularly annexin A11 participates in vesicle trafficking endocytosis and the regulation of cell division by interacting with the mitotic spindle apparatus.
Biological function summary	Annexin A11 plays a significant role in cellular processes such as membrane repair cell migration and apoptosis. It does not form a stable part of a large protein complex under normal conditions but interacts dynamically with other proteins during cellular events. This protein influences intracellular calcium signaling which is important for maintaining cellular homeostasis and responding to extracellular stimuli. Annexin A11 regulates actin cytoskeletal organization impacting cell motility and structural integrity.
Pathways	Annexin A11’s functions integrate into critical cell signaling and communication pathways such as the calcium signaling pathway and apoptosis pathway. Within these pathways annexin A11 interacts with other proteins like annexin V and annexin II modifying intracellular responses to calcium fluctuations and apoptotic signals. These pathways ensure proper cellular responses to environmental changes and stress conditions facilitating processes like cell survival and programmed cell death.
Associated diseases and disorders	Annexin A11 associates with amyotrophic lateral sclerosis (ALS) and certain types of cancer. Mutations in the ANXA11 gene correlate with the development of familial ALS where annexin A11 dysfunction affects neuronal survival and leads to motor neuron degeneration. In certain cancers elevated levels of annexin A11 may influence tumor growth through its role in cell proliferation pathways. In both ALS and cancer proteins such as SOD1 in ALS and cyclin D1 in cancer may have connections to annexin A11’s function and regulatory networks.

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.

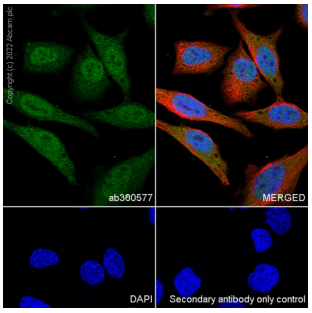
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

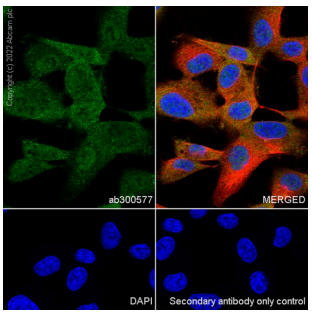
---

6 product images



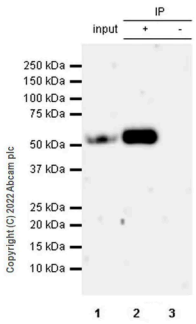
Immunocytochemistry/ Immunofluorescence - Anti-Annexin-11/ANXA11 antibody [EPR26004-63] (ab300577)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized HeLa (human cervix adenocarcinoma epithelial cell) cells labelling Annexin 11/ANXA11 with ab300577 at 1/50 (9.82 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 2ug/mL dilution (Green). Confocal image showing nuclear and cytoplasmic staining in HeLa cell line is observed. ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 2.5ug/ml dilution (Red). The Nuclear counterstain was DAPI (Blue).
Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2ug/mL dilution.



Immunocytochemistry/ Immunofluorescence - Anti-Annexin-11/ANXA11 antibody [EPR26004-63] (ab300577)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized HT-1080 (human fibrosarcoma epithelial cell) cells labelling Annexin 11/ANXA11 with ab300577 at 1/50 (9.82 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 2ug/mL dilution (Green). Confocal image showing nuclear and cytoplasmic staining in HT-1080 cell line is observed. ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 2.5ug/ml dilution (Red). The Nuclear counterstain was DAPI (Blue).
Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2ug/mL dilution.



Immunoprecipitation - Anti-Annexin-11/ANXA11 antibody [EPR26004-63] (ab300577)

Annexin 11/ANXA11 was immunoprecipitated from 0.35 mg HeLa (human cervical adenocarcinoma epithelial cell), whole cell lysate 10 ug with ab300577 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab300577 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(ab131366) was used at 1/5000 dilution.

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

All lanes:
Immunoprecipitation - Anti-Annexin-11/ANXA11 antibody [EPR26004-63] (ab300577) at 1/1000 dilution

Lane 1:
HeLa whole cell lysate at 10 µg

Lane 2:
ab300577 at 1/30 IP in HeLa whole cell lysate at 10 µg

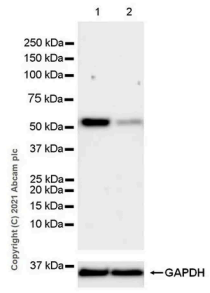
Lane 3:
Rabbit monoclonal IgG (ab172730) instead of ab300577 in HeLa whole cell lysate at 10 µg

Secondary

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

Observed band size: 56 kDa

Exposure time: 3min



Western blot - Anti-Annexin-11/ANXA11 antibody [EPR26004-63] (ab300577)

Annexin-11/ANXA11 Western blot staining using rabbit Anti-Annexin-11/ANXA11 antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 32003509).
All lanes:
Western blot - Anti-Annexin-11/ANXA11 antibody [EPR26004-63] (ab300577) at 1/1000 dilution

Lane 1:
HeLa (human cervical adenocarcinoma epithelial cell) transfected with scrambled siRNA control, whole cell lysate

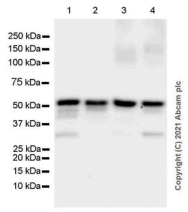
Lane 2:
HeLa transfected with siRNA specifically targeti ANXA11, whole cell lysate 20

Secondary

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

Observed band size: 56 kDa

Exposure time: 26s



Western blot - Anti-Annexin-11/ANXA11 antibody [EPR26004-63] (ab300577)

Blocking and diluting buffer and concentration: 5% NFDM/TBST The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 29306955). The bands beneath the target band are likely to be degraded target fragments.
All lanes:
Western blot - Anti-Annexin-11/ANXA11 antibody [EPR26004-63] (ab300577) at 1/1000 dilution

Lane 1:
Human ovary cancer tissue lysate

Lane 2:
Human small intestine tissue lysate

Lane 3:
Mouse uterus tissue lysate

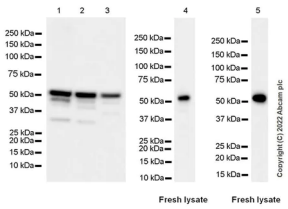
Lane 4:
Rat uterus tissue lysate

Secondary

All lanes:
Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Observed band size: 56 kDa

Exposure time: 7.75s



Western blot - Anti-Annexin-11/ANXA11 antibody [EPR26004-63] (ab300577)

Blocking and diluting buffer and concentration: 5% NFDM/TBST The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 32003509). The bands beneath the target band in lane 1-3 are likely to be degraded target fragments.The lysates of lane 5-6 were freshly made and used for Western blotting immediately to minimize protein degradation.
All lanes:
Western blot - Anti-Annexin-11/ANXA11 antibody [EPR26004-63] (ab300577) at 1/1000 dilution

Lane 1:
A431 (human epidermoid carcinoma epithelial cell), whole cell lysate

Lane 2:
HT-29 (human colorectal adenocarcinoma epithelial cell), whole cell lysate

Lane 3:
Jurkat (human T cell leukemia T lymphocyte), whole cell lysate

Lane 4:
A431 (human epidermoid carcinoma epithelial cell), whole cell fresh lysate

Lane 5:
HT-1080 (human fibrosarcoma epithelial cell), whole cell fresh lysate

Secondary

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

Observed band size: 56 kDa

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