abcam

ab251329

Anti-Annexin-6/ANXA6 antibody [EPR19536] - BSA and Azide free

Recombinant | RabMAb | KO Validated

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogens	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR19536
Purification technique	Affinity purification Protein A
Concentration	0.969 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.

Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

IHC-P

Expected

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

ICC/IF

Expected

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

Flow Cyt (Intra)

Expected

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

Target data

See full target information ANXA6

Function	May associate with CD21. May regulate the release of Ca(2+) from intracellular stores.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab251329 is the carrier-free version of ab201024.

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.

Conjugation ready

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility

This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Supplementary info

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

Activity summary	Annexin-6 also known as ANXA6 is a member of the annexin family of proteins. It has a mass of approximately 68 kDa and is expressed in various tissues with substantial presence in muscle and liver. This protein acts mechanically by binding to membranes in a calcium-dependent manner playing a role in membrane-associated processes such as endocytosis and exocytosis. Annexin-6 can also interact with cytoskeletal elements influencing cell structure and stability.
Biological function summary	Annexin-6 functions as a versatile scaffold that organizes multiprotein complexes. It modulates membrane trafficking processes and participates in signaling pathways within the cell. This protein can influence intracellular calcium homeostasis by interacting with calcium channels and transporters making it an integral part of cellular signaling and communication.
Pathways	Annexin-6 plays a role in the MAPK and PI3K/Akt signaling pathways. It associates with proteins such as Ras and Protein Kinase C impacting cell proliferation survival and differentiation. These interactions highlight the importance of annexin-6 in cellular responses to external stimuli and help regulate various physiological processes in the body.
Associated diseases and disorders	Annexin-6 has been linked to cardiac disorders and cancer. In the context of cardiac health it interacts with proteins like phospholamban and calmodulin to influence heart muscle function and calcium regulation. In cancer annexin-6's involvement in the Akt signaling pathway can affect tumor growth and metastasis often interacting with other proteins like EGFR and HER2. This makes it a significant protein of interest in disease research and potential therapeutic targeting.

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

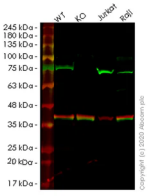
We do not recommend this combination. It is not covered by our product promise.

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.

1 product image



Western blot - Anti-Annexin-6/ANXA6 antibody [EPR19536] - BSA and Azide free (ab251329)

Annexin-6/ANXA6 Western blot staining using rabbit Anti-Annexin-6/ANXA6 antibody

This data was developed using the same antibody clone in a different buffer formulation (ab201024).
Lanes 1-4: Merged signal (red and green). Green - ab201024 observed at 75 kDa. Red - loading control ab8245 observed at 36 kDa.

ab201024 Anti-Annexin-6/ANXA6 antibody [EPR19536] was shown to specifically react with Annexin-6/ANXA6 in wild-type HeLa cells. Loss of signal was observed when knockout cell line ab265677 (knockout cell lysate ab257351) was used. Wild-type and Annexin-6/ANXA6 knockout samples were subjected to SDS-PAGE. ab201024 and Anti-GAPDH antibody [6C5] - Loading Control (ab8245) were incubated at room temperature for 2. 5 hours at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (ab216776) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.

All lanes:
Western blot - Anti-Annexin-6/ANXA6 antibody [EPR19536] (ab201024) at 1/1000 dilution

Lane 1:
Wild-type HeLa cell lysate at 20 µg

Lane 2:
Western blot - Human ANXA6 (Annexin-6) knockout HeLa cell lysate (ab257351) at 20 µg

Lane 3:
Jurkat cell lysate at 20 µg

Lane 4:
Raji cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) at 1/10000 dilution

Predicted band size: 76 kDa

Observed band size: 75 kDa

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