abcam

Product datasheet

Anti-Annexin A1/ANXA1 antibody [ANXA1/3566] - BSA and Azide free ab268191

8 Images

Overview

Product name	Anti-Annexin A1/ANXA1 antibody [ANXA1/3566] - BSA and Azide free
Description	Mouse monoclonal [ANXA1/3566] to Annexin A1/ANXA1 - BSA and Azide free
Host species	Mouse
Tested applications	**Suitable for:** Flow Cyt, ICC/IF, IHC-P, Protein Array, WB
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant full length protein within Human Annexin A1/ANXA1 aa 1 to the C-terminus. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please **contact** our Scientific Support team to discuss your requirements. Database link: **P04083**
Positive control	WB: A549 cell lysate. IHC-P: Human lymph node tissue. Human colon carcinoma and prostate carcinoma tissue. ICC/IF: HeLa cells. Flow Cyt: HeLa cells.
General notes	ab268191 is the carrier-free version of **ab268070**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. 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. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A/G purified
Purification notes	Purified from bioreactor concentrate.
Clonality	Monoclonal
Clone number	ANXA1/3566
Isotype	IgG2a
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab268191 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

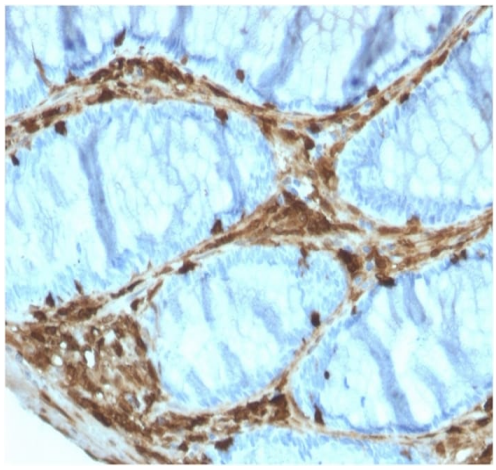
Application	Abreviews	Notes
Flow Cyt		Use 1-2µg for 10^6 cells.
ICC/IF		Use a concentration of 1 - 2 µg/ml.
IHC-P		Use a concentration of 1 - 2 µg/ml. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
Protein Array		Use at an assay dependent concentration.
WB		Use a concentration of 1 - 2 µg/ml. Predicted molecular weight: 39 kDa.

Target

Function	Calcium/phospholipid-binding protein which promotes membrane fusion and is involved in exocytosis. This protein regulates phospholipase A2 activity. It seems to bind from two to four calcium ions with high affinity.
Sequence similarities	Belongs to the annexin family. Contains 4 annexin repeats.
Domain	A pair of annexin repeats may form one binding site for calcium and phospholipid.
Post-translational modifications	Phosphorylated by protein kinase C, epidermal growth factor receptor/kinase and TRPM7. Phosphorylation results in loss of the inhibitory activity.
Cellular localization	Nucleus. Cytoplasm. Cell projection > cilium. Basolateral cell membrane. Found in the cilium,

nucleus and basolateral cell membrane of ciliated cells in the tracheal endothelium (By similarity). Found in the cytoplasm of type II pneumocytes and alveolar macrophages.

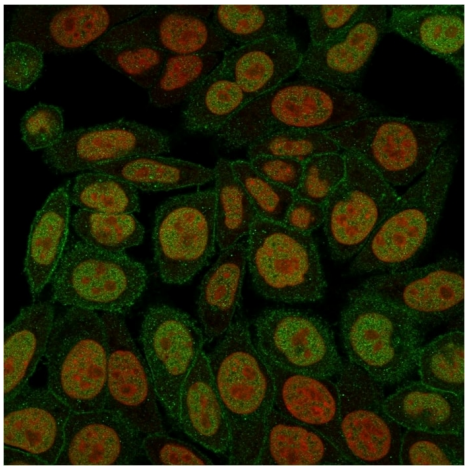
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Annexin A1/ANXA1 antibody [ANXA1/3566] - BSA and Azide free (ab268191)

Formalin-fixed, paraffin-embedded human colon carcinoma tissue stained for Annexin I using **ab268070** at 2 µg/ml in immunohistochemical analysis.

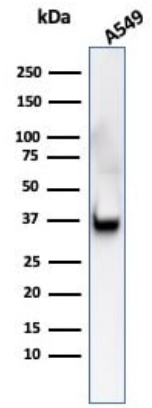
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and Sodium azide (**ab268070**)



Immunocytochemistry/ Immunofluorescence - Anti-Annexin A1/ANXA1 antibody [ANXA1/3566] - BSA and Azide free (ab268191)

Immunofluorescence staining of paraformaldehyde-fixed HeLa (Human epithelial cell line from cervix adenocarcinoma) cells stained for Annexin I with **ab268070** at 2 µg/ml followed by a goat anti-Mouse IgG-CF488 (Green). Nuclei are labeled with Reddot (Red).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and Sodium azide (**ab268070**)

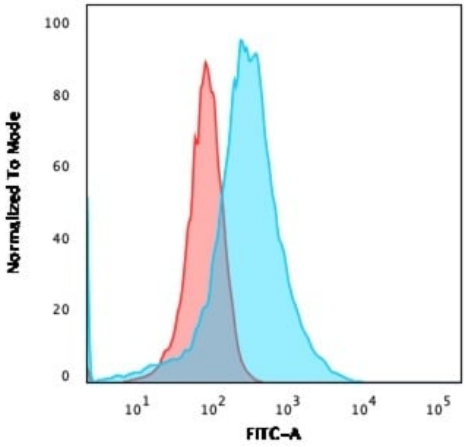


Western blot - Anti-Annexin A1/ANXA1 antibody [ANXA1/3566] - BSA and Azide free (ab268191)

Anti-Annexin A1/ANXA1 antibody [ANXA1/3566] (**ab268070**) at 2 µg/ml + A549 (Human lung carcinoma cell line) whole cell lysate

Predicted band size: 39 kDa

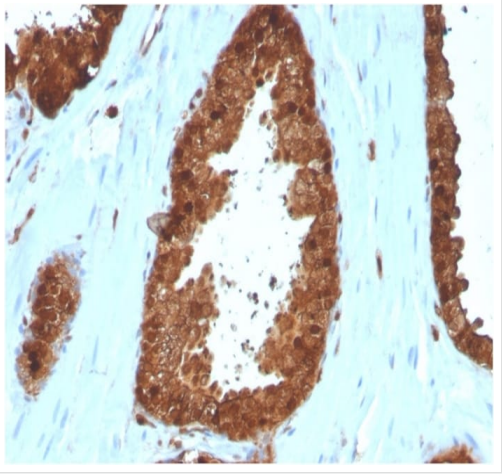
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and Sodium azide (**ab268070**)



Flow Cytometry - Anti-Annexin A1/ANXA1 antibody [ANXA1/3566] - BSA and Azide free (ab268191)

Flow cytometric analysis of PFA-fixed HeLa (Human epithelial cell line from cervix adenocarcinoma) cells labeling Annexin I using **ab268070** at 2 µg/million cells followed by a goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

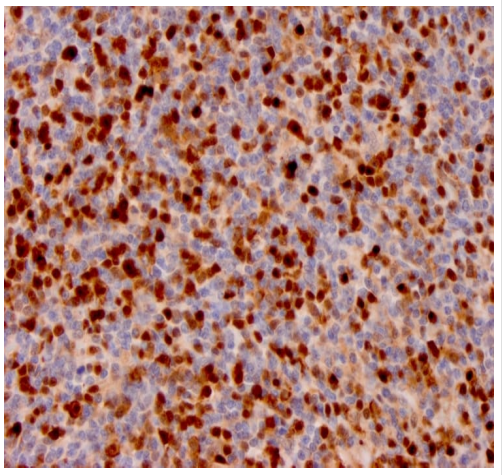
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and Sodium azide (**ab268070**)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Annexin A1/ANXA1 antibody [ANXA1/3566] - BSA and Azide free (ab268191)

Formalin-fixed, paraffin-embedded human prostate carcinoma tissue stained for Annexin I using **ab268070** at 2 µg/ml in immunohistochemical analysis.

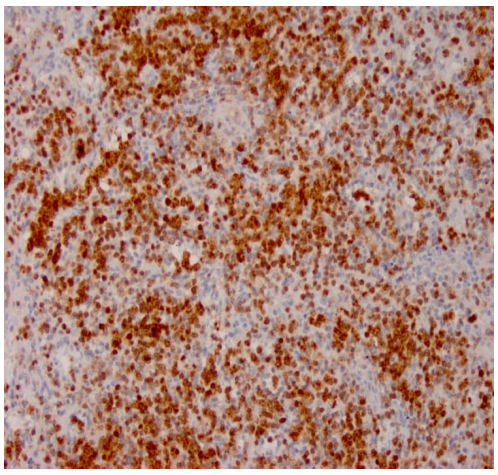
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and Sodium azide (**ab268070**)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Annexin A1/ANXA1 antibody [ANXA1/3566] - BSA and Azide free (ab268191)

Formalin-fixed, paraffin-embedded human lymph node tissue stained for Annexin I using **ab268070** at 2 µg/ml in immunohistochemical analysis.

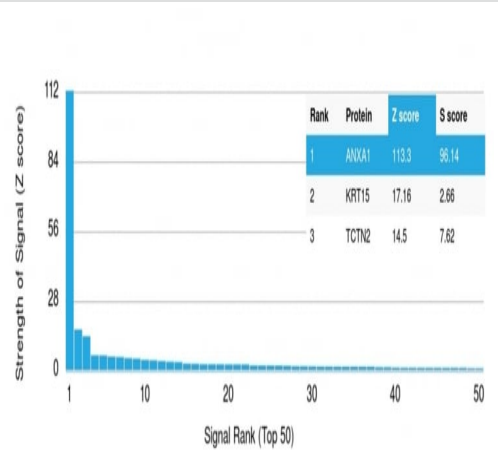
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and Sodium azide (**ab268070**)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Annexin A1/ANXA1 antibody [ANXA1/3566] - BSA and Azide free (ab268191)

Formalin-fixed, paraffin-embedded human lymph node tissue stained for Annexin I using **ab268070** at 2 µg/ml in immunohistochemical analysis.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and Sodium azide (**ab268070**)



Protein Array - Anti-Annexin A1/ANXA1 antibody [ANXA1/3566] - BSA and Azide free (ab268191)

Protein Array containing more than 19,000 full-length human proteins using **ab268070**.

Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and Sodium azide (**ab268070**)

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