abcam

Product datasheet

Anti-Annexin A1/ANXA1 antibody [EPR19342] - BSA and Azide free ab222398

敲除验证 重组 RabMAb

14 图像

概述

产品名称	Anti-Annexin A1/ANXA1抗体[EPR19342] - BSA and Azide free
描述	兔单克隆抗体[EPR19342] to Annexin A1/ANXA1 - BSA and Azide free
宿主	Rabbit
经测试应用	**适用于:** Flow Cyt (Intra), ICC/IF, IHC-P, IP, WB
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: K562, BxPC-3, C2C12, C6, PC-12 and NIH/3T3 whole cell lysates; human fetal brain, fetal kidney and placenta lysates; mouse and rat kidney and spleen lysates. IHC-P: Human tonsil, breast, endometrial cancer and bladder cancer tissues; rat lung tissue; mouse spleen tissue. ICC/IF: BxPC-3 and NIH/3T3 cells. Flow Cyt (intra): NIH/3T3 cells. IP: K562 whole cell lysate.
常规说明	ab222398 is the carrier-free version of **ab214486**. 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. 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. 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 production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit

monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.2 Constituent: PBS
无载体	**是**
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR19342
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab222398于以下的经测试应用**

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt (Intra)		Use at an assay dependent concentration. **ab199376** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 37, 33 kDa (predicted molecular weight: 38 kDa).

靶标

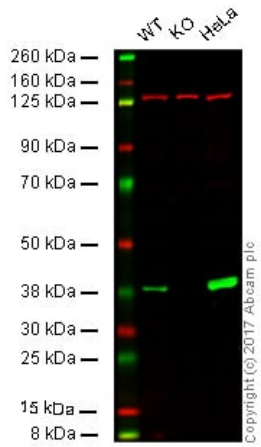
功能	Calcium/phospholipid-binding protein which promotes membrane fusion and is involved in exocytosis. This protein regulates phospholipase A2 activity. It seems to bind from two to four calcium ions with high affinity.
序列相似性	Belongs to the annexin family. Contains 4 annexin repeats.
结构域	A pair of annexin repeats may form one binding site for calcium and phospholipid.
翻译后修饰	Phosphorylated by protein kinase C, epidermal growth factor receptor/kinase and TRPM7.

Phosphorylation results in loss of the inhibitory activity.

细胞定位

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.

图片



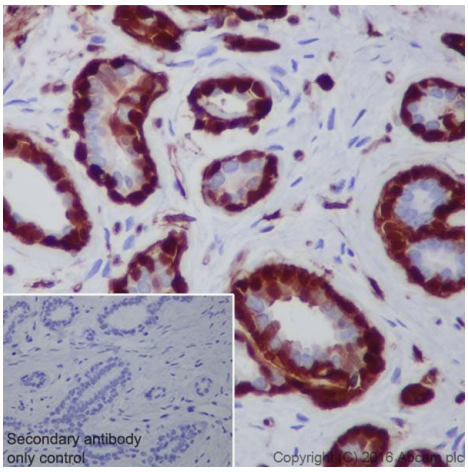
Western blot - Anti-Annexin A1/ANXA1 antibody [EPR19342] - BSA and Azide free (ab222398)

This WB data was generated using the same anti-Annexin A1 antibody clone, EPR19342, in a different buffer formulation (cat# **ab214486**).

Lane 1: Wild type HAP1 whole cell lysate (20 µg)
Lane 2: Annexin A1 knockout HAP1 whole cell lysate (20 µg)
Lane 3: HeLa whole cell lysate (20 µg)

Lanes 1 - 3: Merged signal (red and green). Green - **ab214486** observed at 38 kDa. Red - loading control, **ab18058**, observed at 130 kDa.

ab214486 was shown to specifically react with Annexin A1 when Annexin A1 knockout samples were used. Wild-type and Annexin A1 knockout samples were subjected to SDS-PAGE. Ab214486 and **ab18058** (Mouse anti-Vinculin loading control) were incubated overnight at 4°C at 1/2000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Annexin A1/ANXA1 antibody [EPR19342] - BSA and Azide free (ab222398)

Immunohistochemical analysis of paraffin-embedded human breast tissue labeling Annexin A1 with **ab214486** at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Nuclear and cytoplasmic staining on human breast tissue is observed [PMID:16949910].

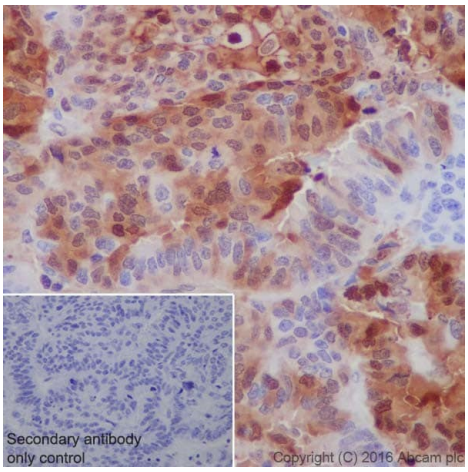
Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab214486**).

Heat mediated antigen retrieval was performed with Tris/EDTA

buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Annexin A1/ANXA1 antibody [EPR19342] - BSA and Azide free (ab222398)

Immunohistochemical analysis of paraffin-embedded human endometrial cancer tissue labeling Annexin A1 with **ab214486** at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

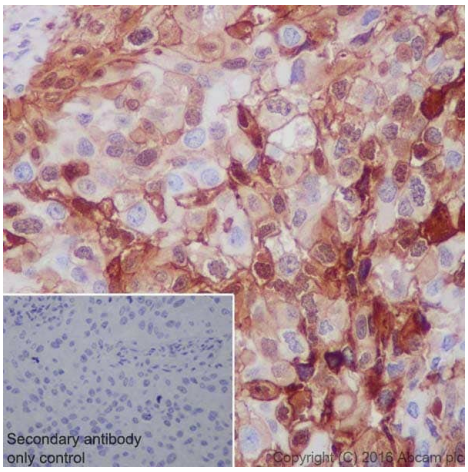
Nuclear and cytoplasmic and weak membrane staining on human endometrial cancer tissue is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab214486**).

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Annexin A1/ANXA1 antibody [EPR19342] - BSA and Azide free (ab222398)

Immunohistochemical analysis of paraffin-embedded human bladder cancer tissue labeling Annexin A1 with **ab214486** at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

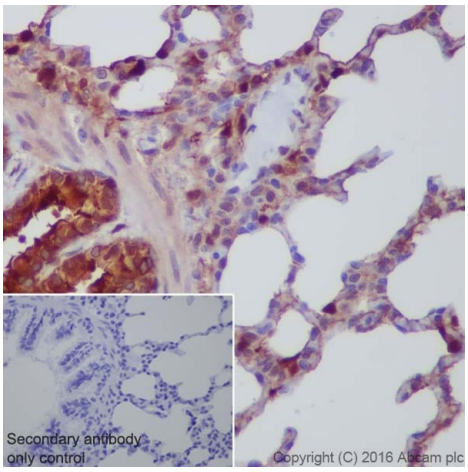
Nuclear, cytoplasmic and membrane staining on human bladder cancer tissue is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab214486**).

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Annexin A1/ANXA1 antibody [EPR19342] - BSA and Azide free (ab222398)

Immunohistochemical analysis of paraffin-embedded rat lung tissue labeling Annexin A1 with **ab214486** at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

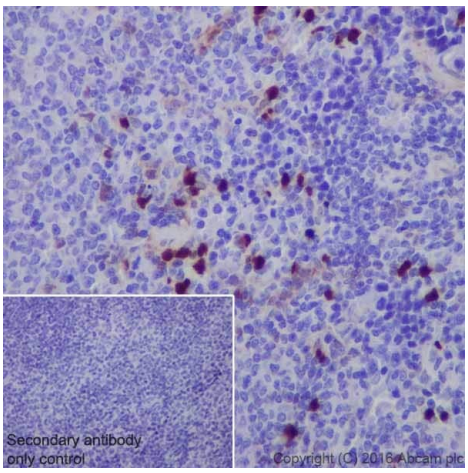
Nuclear and cytoplasmic staining on rat lung tissue is observed [PMID:15133855] [PMID:9720986].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab214486**).

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Annexin A1/ANXA1 antibody [EPR19342] - BSA and Azide free (ab222398)

Immunohistochemical analysis of paraffin-embedded mouse spleen tissue labeling Annexin A1 with **ab214486** at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

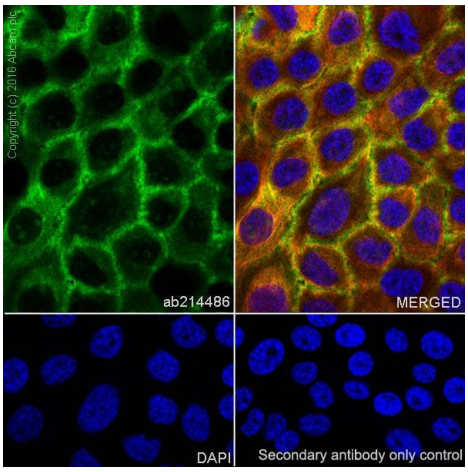
Nuclear and cytoplasmic staining on mouse spleen tissue is observed [PMID:9720986].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab214486**).

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Annexin A1/ANXA1 antibody [EPR19342] - BSA and Azide free (ab222398)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized BxPC-3 (Human pancreas adenocarcinoma cell line) cells labeling Annexin A1 with **ab214486** at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green).

Confocal image showing membrane and weak cytoplasmic staining on BxPC-3 cell line.

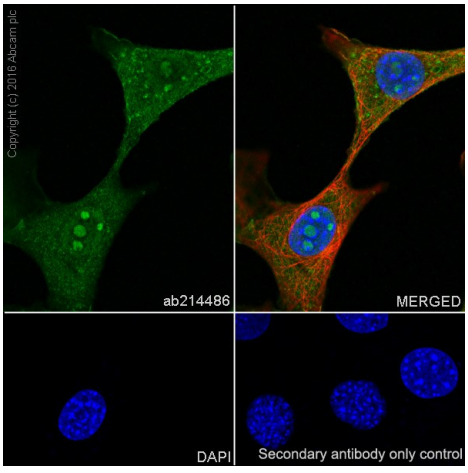
The nuclear counterstain is DAPI (blue).

Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (**ab195889**) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab214486**).

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-Annexin A1/ANXA1 antibody [EPR19342] - BSA and Azide free (ab222398)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized NIH/3T3 (Mouse embryonic fibroblast cell line) cells labeling Annexin A1 with **ab214486** at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green).

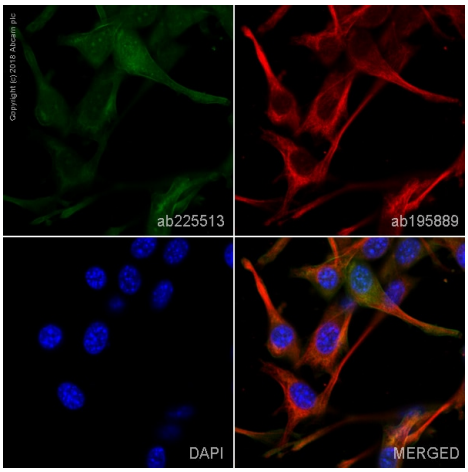
Confocal image showing membrane and cytoplasmic staining on NIH/3T3 cell line.

The nuclear counterstain is DAPI (blue).

Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (**ab195889**) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab214486**).



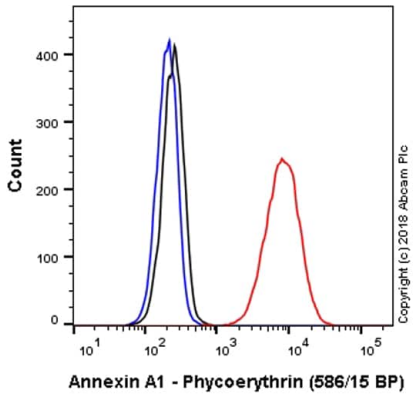
Immunocytochemistry/ Immunofluorescence - Anti-Annexin A1/ANXA1 antibody [EPR19342] - BSA and Azide free (ab222398)

Clone EPR19342 (ab222398) has been successfully conjugated by Abcam. This image was generated using Anti-Annexin A1/ANXA1 antibody [EPR19342] (Alexa Fluor® 488). Please refer to **ab225513** for protocol details.

ab225513 staining Annexin A1 in NIH3T3 cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with **ab225513** at 1/100 dilution (shown in green) and **ab195889**, Mouse monoclonal to alpha Tubulin (Alexa Fluor® 594), at 1/250 dilution (shown in red). Nuclear DNA was labelled with DAPI (shown in blue).

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

This product also gave a positive signal under the same testing conditions in NIH3T3 cells fixed with 4% formaldehyde (10 min).



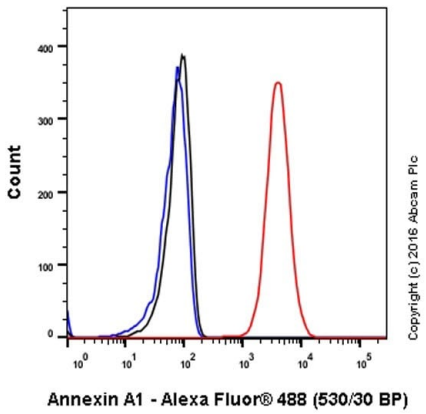
Flow Cytometry (Intracellular) - Anti-Annexin A1/ANXA1 antibody [EPR19342] - BSA and Azide free (ab222398)

Clone EPR19342 (ab222398) has been successfully conjugated by Abcam. This image was generated using Anti-Annexin A1/ANXA1 antibody [EPR19342] (PE). Please refer to **ab225512** for protocol details.

Overlay histogram showing NIH3T3 cells stained with **ab225512** (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Triton X-100 for 15 min. The cells were then incubated in 1x PBS / 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (**ab225512**, 1/1000 dilution) for 30 min at 22°C.

Isotype control antibody (black line) was Rabbit IgG (monoclonal) Phycoerythrin (**ab209478**) used at the same concentration and conditions as the primary antibody. Unlabelled sample (blue line) was also used as a control.

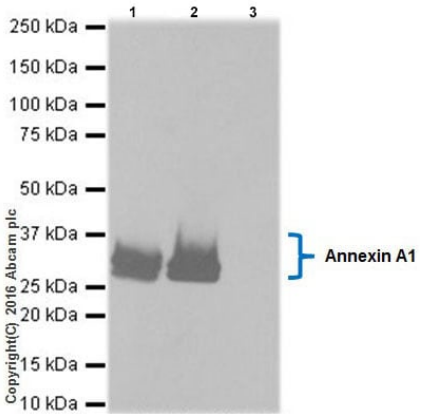
Acquisition of >5,000 events were collected using a 50 mW Yellow/Green laser (561nm) and 586/15 bandpass filter.



Flow Cytometry (Intracellular) - Anti-Annexin A1/ANXA1 antibody [EPR19342] - BSA and Azide free (ab222398)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed NIH/3T3 (Mouse embryonic fibroblast cell line) cells labeling Annexin A1 with **ab214486** at 1/600 dilution (red) compared with Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**; black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody; blue). Goat anti rabbit IgG (Alexa Fluor® 488) at 1/2000 dilution was used as the secondary antibody.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab214486**).



Immunoprecipitation - Anti-Annexin A1/ANXA1 antibody [EPR19342] - BSA and Azide free (ab222398)

Annexin A1 was immunoprecipitated from 0.35 mg of K562 (Human chronic myelogenous leukemia cell line from bone marrow) whole cell lysate with **ab214486** at 1/30 dilution.

Western blot was performed from the immunoprecipitate using **ab214486** at 1/1000 dilution.

VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

Lane 1: K562 whole cell lysate 10µg (Input).

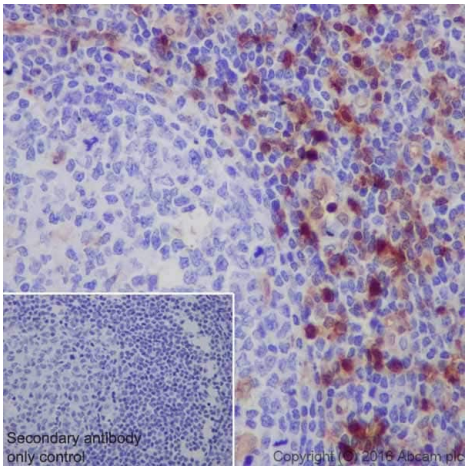
Lane 2: **ab214486** IP in K562 whole cell lysate.

Lane 3: Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) instead of **ab214486** in K562 whole cell lysate.

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

Exposure time: 1 second.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab214486**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Annexin A1/ANXA1 antibody [EPR19342] - BSA and Azide free (ab222398)

This IHC data was generated using the same anti-Annexin A1 antibody clone, EPR19342, in a different buffer formulation (cat# **ab214486**).

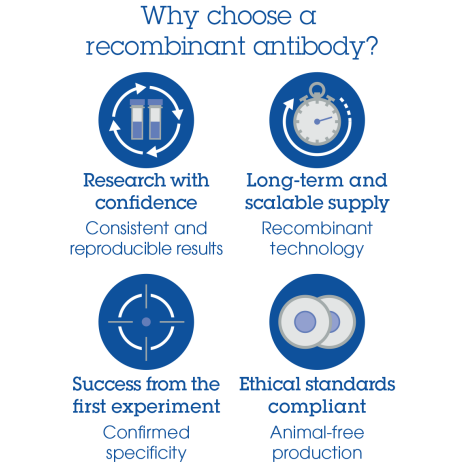
Immunohistochemical analysis of paraffin-embedded human tonsil tissue labeling Annexin A1 with **ab214486** at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Nuclear and cytoplasmic staining on human tonsil tissue is observed [PMID:9720986].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Anti-Annexin A1/ANXA1 antibody [EPR19342] - BSA and Azide free (ab222398)

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