abcam

Product datasheet

Anti-Annexin V/ANXA5 antibody [EPR3980] ab108194

KO VALIDATED Recombinant RabMAb

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Overview

Product name	Anti-Annexin V/ANXA5 antibody [EPR3980]
Description	Rabbit monoclonal [EPR3980] to Annexin V/ANXA5
Host species	Rabbit
Specificity	The immunogen used for this product shares 80% homology with ANXA2 and 73% homology with ANXA4. Cross-reactivity with this protein has not been confirmed experimentally.
Tested applications	**Suitable for:** WB, ICC/IF, Flow Cyt (Intra)
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Flow Cyt (Intra): HeLa cells WB: HeLa, HAP1, and Jurkat cell lysates, and Mouse brain, Mouse heart, Rat Brain, and Rat heart tissue lysates ICC: JAR (Human placenta choriocarcinoma epithelial cell) cells
General notes	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**.

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: 7.20 Preservative: 0.01% Sodium azide Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), 59% PBS
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EPR3980
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab108194 in the following tested applications.

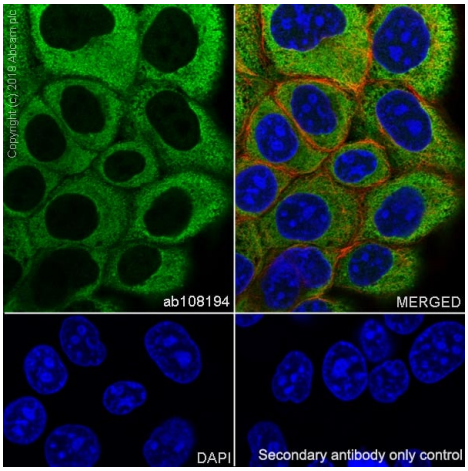
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/10000 - 1/50000. Predicted molecular weight: 36 kDa.
ICC/IF		1/50. **For unpurified use at 1/500 - 1/1000.**
Flow Cyt (Intra)		1/30. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. **For unpurified use at 1/100 - 1/1000.**

Target

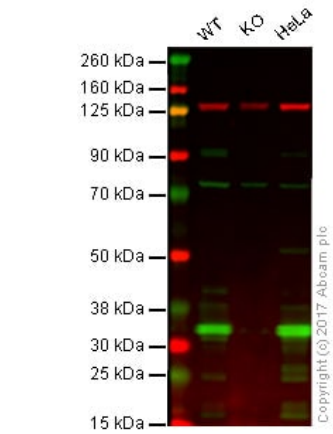
Function	This protein is an anticoagulant protein that acts as an indirect inhibitor of the thromboplastin-specific complex, which is involved in the blood coagulation cascade.
Involvement in disease	Pregnancy loss, recurrent, 3
Sequence similarities	Belongs to the annexin family. Contains 4 annexin repeats.
Domain	The [IL]-x-C-x-x-[DE] motif is a proposed target motif for cysteine S-nitrosylation mediated by the iNOS-S100A8/A9 transnitrosylase complex. A pair of annexin repeats may form one binding site for calcium and phospholipid.
Post-translational modifications	S-nitrosylation is induced by interferon-gamma and oxidatively-modified low-densitity lipoprotein (LDL(ox)) possibly implicating the iNOS-S100A8/9 transnitrosylase complex.

Images



Immunocytochemistry/ Immunofluorescence - Anti-Annexin V/ANXA5 antibody [EPR3980] (ab108194)

Immunocytochemistry analysis of JAR (Human placenta choriocarcinoma epithelial cell) cells labeling Annexin V/ANXA5 with purified ab108194 at 1:50 dilution (2.2 µg/ml). Cells were fixed in 100% Methanol and permeabilized with 0.1% tritonX-100. Cells were counterstained with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at 1/200 dilution (2.5 µg/ml) (**ab195889**) (red). Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI (blue) was used as a nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.

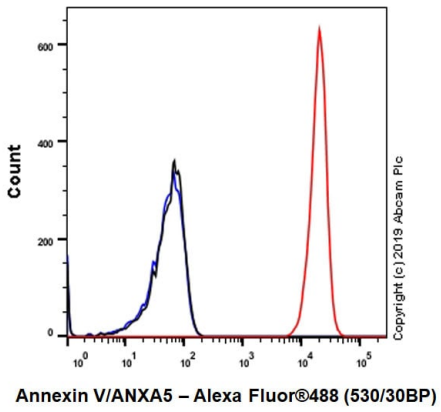


Western blot - Anti-Annexin V/ANXA5 antibody [EPR3980] (ab108194)

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

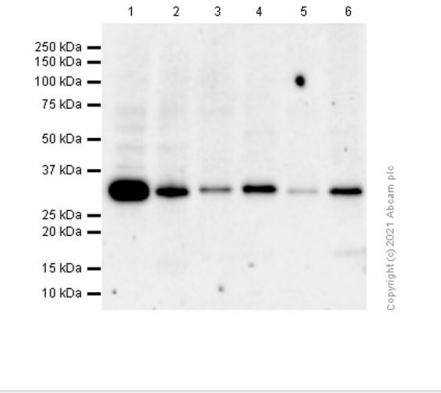
Lanes 1 - 3: Merged signal (red and green). Green - ab108194 observed at 35 kDa. Red - loading control, **ab18058**, observed at 130 kDa.

ab108194 was shown to recognize Annexin V in wild-type cells as signal was lost at the expected MW in Annexin V knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and Annexin V knockout samples were subjected to SDS-PAGE. Ab108194 and **ab18058** (Mouse anti-Vinculin loading control) were incubated overnight at 4°C at 1/10000 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.



Flow Cytometry (Intracellular) - Anti-Annexin V/ANXA5 antibody [EPR3980] (ab108194)

Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labelling Annexin V/ANXA5 with purified ab108194 at 1/30 dilution (10 µg/ml) (red). Cells were fixed with 80% Methanol and permeabilised with 0.1% Tween-20. A Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150081**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (black). Unlabelled control - Cell without incubation with primary antibody and secondary antibody (blue).



Western blot - Anti-Annexin V/ANXA5 antibody [EPR3980] (ab108194)

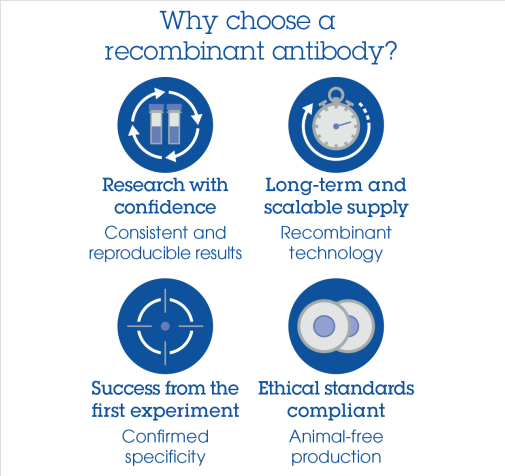
All lanes : Anti-Annexin V/ANXA5 antibody [EPR3980] (ab108194) at 1/10000 dilution (Purified)

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate
Lane 2 : Jurkat (Human T cell leukemia T lymphocyte) whole cell lysate
Lane 3 : Mouse brain
Lane 4 : Mouse heart
Lane 5 : Rat brain
Lane 6 : Rat heart

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 36 kDa
Observed band size: 36 kDa



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(ab108194)

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