

Product datasheet

Anti-Annexin V/ANXA5 antibody [EPR3980] ab108194

KO VALIDATED Recombinant RabMAb

4 References 6 Images

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, Flow Cyt, ICC/IF Unsuitable for: IHC-P or IP
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, fetal kidney, fetal brain, Jurkat and JAR cell lysates ICC: HeLa cells; staurosporin-treated apoptotic HeLa cells
General notes	This product was previously labelled as Annexin V

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. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide

Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant

Purity	Tissue culture supernatant
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.

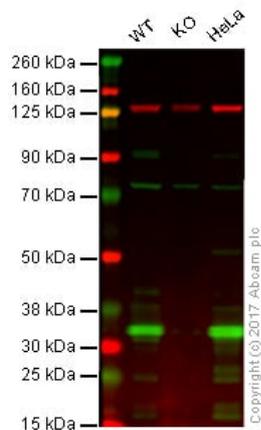
Application	Abreviews	Notes
WB		1/10000 - 1/50000. Predicted molecular weight: 36 kDa.
Flow Cyt		1/100 - 1/1000. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		1/500 - 1/1000.

Application notes Is unsuitable for IHC-P or IP.

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-density lipoprotein (LDL(ox)) possibly implicating the iNOS-S100A8/9 transnitrosylase complex.

Images



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

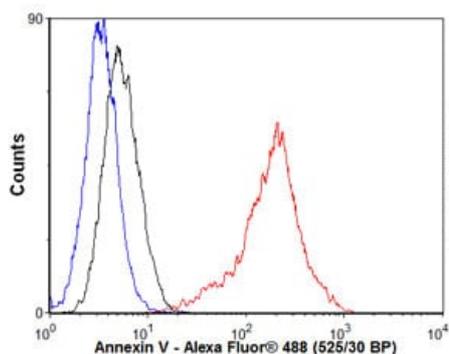
Lane 1: Wild-type HAP1 whole cell lysate (20 µg)

Lane 2: Annexin V knockout HAP1 whole cell lysate (20 µg)

Lane 3: HeLa whole cell lysate (20 µg)

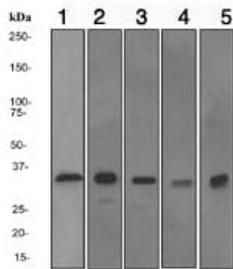
Lanes 1 - 3: Merged signal (red and green). Green - ab108194 observed at 35 kDa. Red - loading control, ab18058, observed at 130 kDa.

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)

Overlay histogram showing HeLa cells stained with ab108194 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab108194, 1/1000 dilution) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) (ab150077) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.



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

All lanes : Anti-Annexin V/ANXA5 antibody [EPR3980] (ab108194)

Lane 1 : HeLa cell lysate

Lane 2 : Fetal kidney lysate

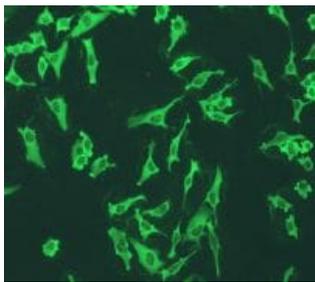
Lane 3 : Fetal brain lysate

Lane 4 : Jurkat cell lysate

Lane 5 : JAR cell lysate

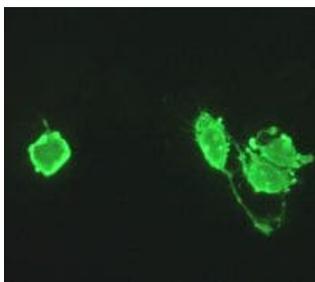
Lysates/proteins at 10 µg per lane.

Predicted band size: 36 kDa



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

Immunofluorescent staining of HeLa cells using 1/500 ab108194.



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

Immunofluorescent staining of staurosporin-treated apoptotic HeLa cells using 1/250 ab108194.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

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

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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