

Product datasheet

Anti-Annexin V/ANXA5 antibody [EPR3979] ab108321

KO VALIDATED Recombinant RabMAb

★★★★☆ 4 Abreviews 4 References 4 Images

Overview

Product name	Anti-Annexin V/ANXA5 antibody [EPR3979]
Description	Rabbit monoclonal [EPR3979] to Annexin V/ANXA5
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P Unsuitable for: Flow Cyt or IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	HeLa, JAR, and fetal kidney lysates; Human gastric tissue
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - 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 -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR3979
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab108321 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		1/1000 - 1/10000. Predicted molecular weight: 36 kDa.
IHC-P	★★★★★ (3)	1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Perform antigen retrieval before commencing with IHC staining protocol

Application notes

Is unsuitable for Flow Cyt 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

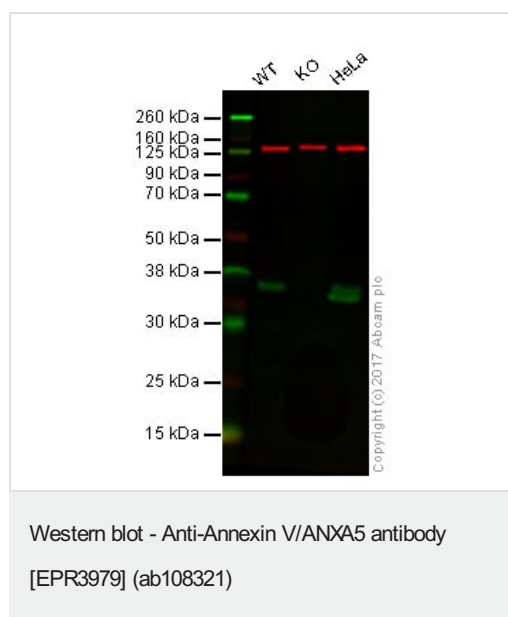
The [IL]-x-C-x-x-[DE] motif is a proposed target motif for cysteine S-nitrosylation mediated by the iNOS-S100A8/A9 transnitrosylase complex.

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



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

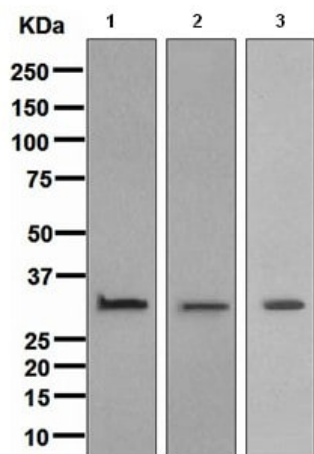
Lane 2: Annexin V/ANXA5 knockout HAP1 whole cell lysate (20 µg)

Lane 3: HeLa whole cell lysate (20 µg)

Lanes 1 - 3: Merged signal (red and green). Green - ab108321 observed at 35 kDa. Red - loading control, **ab18058**, observed at 130 kDa.

ab108321 was shown to specifically react with Annexin V/ANXA5 in wild-type cells as signal was lost in Annexin V/ANXA5 knockout cells. Wild-type and Annexin V/ANXA5 knockout samples were subjected to SDS-PAGE. Ab108321 and **ab18058** (Mouse anti-Vinculin loading control) were incubated overnight at 4°C at 1/1000 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.



Western blot - Anti-Annexin V/ANXA5 antibody
[EPR3979] (ab108321)

All lanes : Anti-Annexin V/ANXA5 antibody [EPR3979]
(ab108321) at 1/1000 dilution

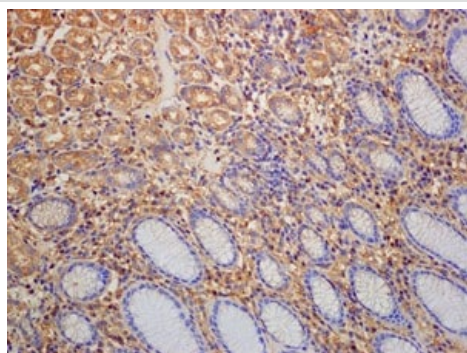
Lane 1 : HeLa cell lysate

Lane 2 : JAR cell lysate

Lane 3 : fetal kidney lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 36 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-Annexin V/ANXA5
antibody [EPR3979] (ab108321)

Immunohistochemical analysis of Annexin V/ANXA5 in paraffin
embedded Human gastric tissue, using ab108321 at a 1/100
dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6
before commencing with IHC staining protocol.

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 [EPR3979]
(ab108321)

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

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