

Product datasheet

Anti-Annexin V/ANXA5 antibody [1F4-1A5] ab54775

★★★★★ [7 Abreviews](#) [20 References](#) [7 Images](#)

Overview

Product name	Anti-Annexin V/ANXA5 antibody [1F4-1A5]
Description	Mouse monoclonal [1F4-1A5] to Annexin V/ANXA5
Host species	Mouse
Tested applications	Suitable for: IP, WB, ICC/IF, IHC-P, Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Recombinant full length protein corresponding to Human Annexin V/ANXA5 aa 1-321.
General notes	<p>This product was changed from ascites to tissue culture supernatant on 22/03/2019. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.</p> <p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.40 Constituent: PBS
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	1F4-1A5
Isotype	IgG1
Light chain type	kappa

Applications

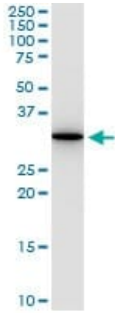
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab54775 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		Use at an assay dependent concentration.
WB	★★★★★ (6)	Use at an assay dependent concentration. Predicted molecular weight: 36 kDa.
ICC/IF		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval via the microwave method before commencing with IHC staining protocol.
Flow Cyt		Use at an assay dependent concentration. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

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.

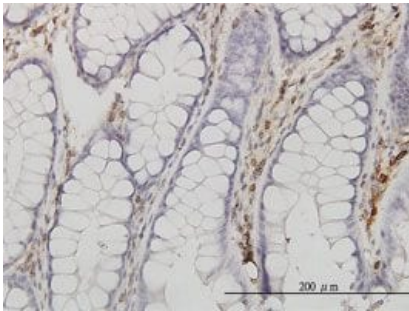
Images



Western blot - Anti-Annexin V/ANXA5 antibody
[1F4-1A5] (ab54775)

ab54775 Western Blot analysis of ANXA5/ANXA5 expression in HeLa cells.

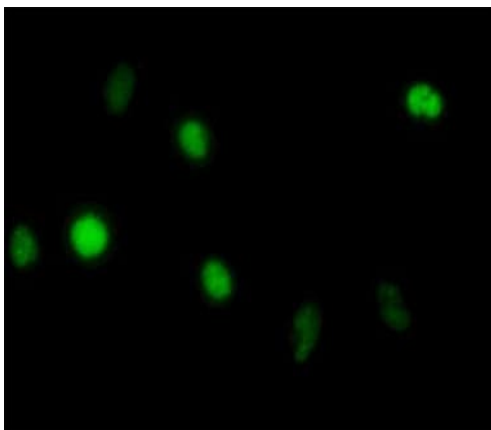
This image was generated using the ascites version of the product.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Annexin V/ANXA5 antibody [1F4-1A5] (ab54775)

Annexin V/ANXA5 antibody (ab54775) used in immunohistochemistry at 3ug/ml on formalin fixed and paraffin embedded human colon.

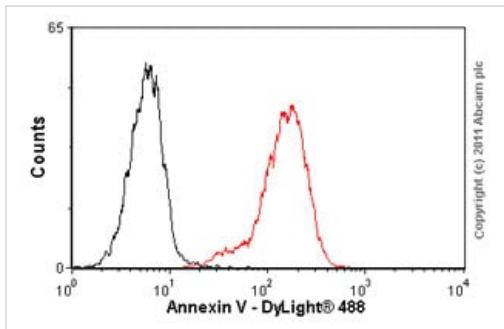
This image was generated using the ascites version of the product.



Immunocytochemistry/ Immunofluorescence - Anti-Annexin V/ANXA5 antibody [1F4-1A5] (ab54775)

ab54775 at 10 ug/ml staining Annexin V/ANXA5 in human HeLa cells by Immunocytochemistry / Immunofluorescence.

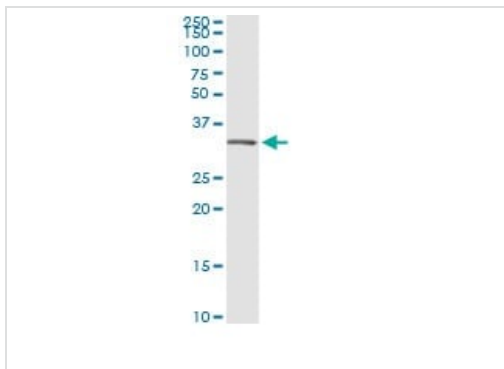
This image was generated using the ascites version of the product.



Flow Cytometry - Anti-Annexin V/ANXA5 antibody [1F4-1A5] (ab54775)

Overlay histogram showing HeLa cells stained with ab54775 (red line). The cells were fixed with 100% 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 (ab54775, 1 μ g/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [CIGG1] ([ab91353](#), 2 μ g/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in HeLa cells fixed with 4% paraformaldehyde (10 min)/permeabilized in 0.1% PBS-Tween used under the same conditions.

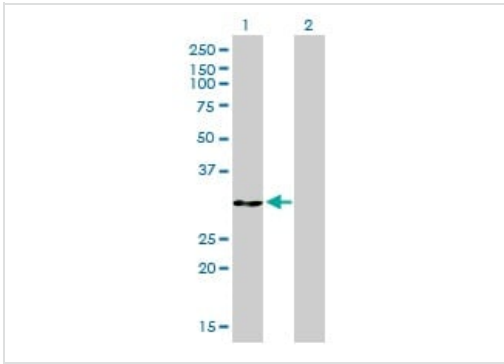
This image was generated using the ascites version of the product.



Immunoprecipitation - Anti-Annexin V/ANXA5 antibody [1F4-1A5] (ab54775)

Immunoprecipitation of ANXA5 transfected lysate using ab54775 monoclonal antibody and Protein A Magnetic Bead and immunoblotted with a ANXA5 rabbit polyclonal antibody.

This image was generated using the ascites version of the product.



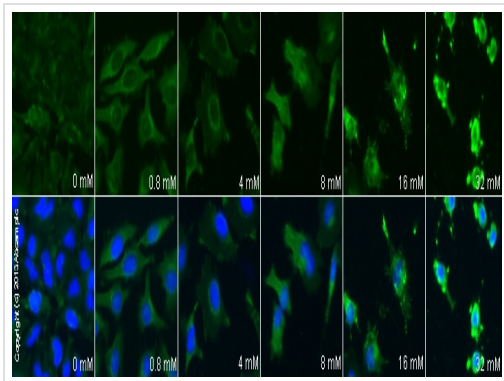
Western blot - Anti-Annexin V/ANXA5 antibody [1F4-1A5] (ab54775)

Western Blot analysis of ANXA5 expression in transfected 293T cell line by ab54775.

Lane 1: ANXA5 transfected lysate(35.9 KDa).

Lane 2: Non-transfected lysate.

This image was generated using the ascites version of the product.



Immunocytochemistry/ Immunofluorescence - Anti-Annexin V/ANXA5 antibody [1F4-1A5] (ab54775)

ab54775 staining Annexin V/ANXA5 in HeLa cells treated with pentoxifylline (**ab120725**), by ICC/IF. Increase of Annexin V/ANXA5 correlates with increased concentration of pentoxifylline, as described in literature.

The cells were incubated at 37°C for 24h in media containing different concentrations of **ab120725** (pentoxifylline) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with ab54775 (10 µg/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-mouse polyclonal antibody (**ab96879**) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.

This image was generated using the ascites version of the product.

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