

## Product datasheet

# Anti-Annexin V/ANXA5 antibody ab54775

★★★★★ 7 Abreviews 13 References 7 Images

### Overview

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<b>Product name</b>	Anti-Annexin V/ANXA5 antibody
<b>Description</b>	Mouse monoclonal to Annexin V/ANXA5
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> IP, WB, ICC/IF, IHC-P, Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant full length protein corresponding to Human Annexin V/ANXA5 aa 1-321.
<b>General notes</b>	<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>This product was previously labelled as Annexin V</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.20 Constituent: PBS
<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG1
<b>Light chain type</b>	kappa

### Applications

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Our [Abpromise guarantee](#) covers the use of **ab54775** in the following tested applications.

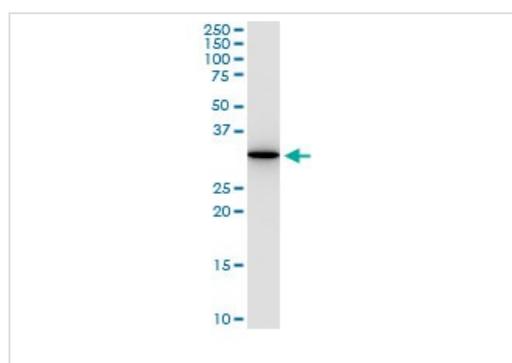
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		Use at an assay dependent concentration.
WB	★★★★☆	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. <a href="#">ab170190</a> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

## Target

<b>Function</b>	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.
<b>Involvement in disease</b>	Pregnancy loss, recurrent, 3
<b>Sequence similarities</b>	Belongs to the annexin family. Contains 4 annexin repeats.
<b>Domain</b>	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.
<b>Post-translational modifications</b>	S-nitrosylation is induced by interferon-gamma and oxidatively-modified low-density lipoprotein (LDL(ox)) possibly implicating the iNOS-S100A8/9 transnitrosylase complex.

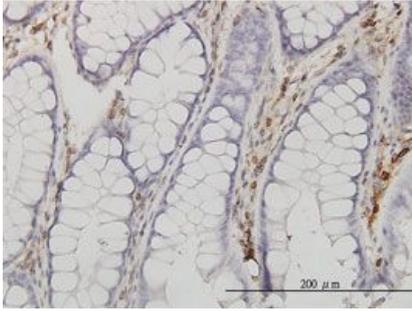
## Images



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

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

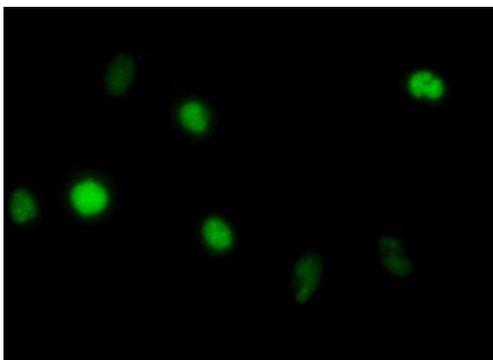
Western blot - Anti-Annexin V/ANXA5 antibody  
(ab54775)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Annexin V/ANXA5 antibody (ab54775)

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

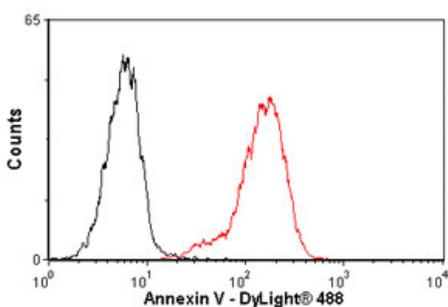
This image was generated using the ascites version of the product.



Immunocytochemistry/ Immunofluorescence - Anti-Annexin V/ANXA5 antibody (ab54775)

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

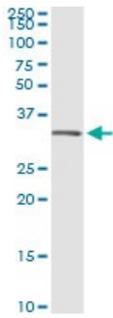
This image was generated using the ascites version of the product.



Flow Cytometry - Anti-Annexin V/ANXA5 antibody (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, 1µg/1x10<sup>6</sup> 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 [ICIGG1] (ab91353, 2µg/1x10<sup>6</sup> 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.

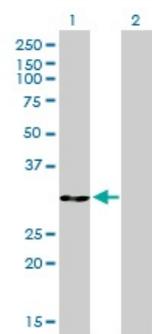
This image was generated using the ascites version of the product.



Immunoprecipitation - Anti-Annexin V/ANXA5 antibody (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.



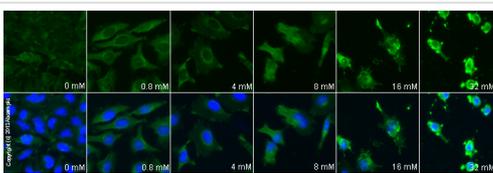
Western blot - Anti-Annexin V/ANXA5 antibody (ab54775)

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 (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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