

Datasheet: ANNEXINSBV440

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|----------------------|-------------------------------------|
| Description: | ANNEXIN V:StarBright Violet 440 KIT |
| Name: | ANNEXIN V KIT |
| Format: | StarBright Violet 440 |
| Product Type: | Kits |
| Quantity: | 100 TESTS |

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

| | Yes | No | Not Determined | Suggested Dilution |
|----------------|-----|----|----------------|--------------------|
| Flow Cytometry | ▪ | | | |

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

| Max Ex/Em | Fluorophore | Excitation Max (nm) | Emission Max (nm) |
|-----------|-----------------------|---------------------|-------------------|
| | StarBright Violet 440 | 383 | 436 |

Preservative Stabilisers

Annexin V:SBV440

0.09% Sodium Azide (NaN₃)
 1% Bovine Serum Albumin
 0.1% Pluronic F68
 0.1% PEG 3350
 0.05% Tween 20

10x Binding Buffer

None present

External Database Links

UniProt:

[P08758](#) [Related reagents](#)

Entrez Gene:

[308](#) ANXA5 [Related reagents](#)

Synonyms

ANX5, ENX2, PP4

Product Information **Annexin V Kit** allows fluorescent detection of annexin V bound to cells undergoing apoptosis. Apoptosis, or programmed cell death, is an essential process, by which organisms ensure that critically damaged or mutated cells are removed. This process is highly regulated by a complex interplay of proteins.

During the early stages of apoptosis, the plasma membrane of a cell is rearranged, resulting in changes to the cell membrane's phospholipid asymmetry. Phosphatidylserine (PS), a phospholipid located within the cell membrane, is translocated and displayed on the outer plasma membrane ([Fadeel and Xue, 2009](#)). Annexin V; a protein encoded by the ANXA5 gene, has a high binding affinity for PS in the presence of Ca^{2+} , and is therefore used as a tool for detecting early apoptotic cells.

The conjugation protocol used to prepare this product has not changed the native phospholipid binding properties of annexin V. This protocol is designed to measure apoptosis easily and quickly in a sample of suspended cells.

[View our complete list of Annexin V Kits](#)

Reagents In The Kit 1 Vial of Annexin V:SBV440, 100 tests/0.5 ml
1 Bottle of 10x Binding Buffer, 20 ml

Instructions For Use

- 1) Dilute the 10x Binding Buffer to 1x in distilled water (1 ml 10x Binding Buffer + 9 ml distilled water).
- 2) Centrifuge and resuspend cells in PBS, adjusting to a cell density of 1×10^6 cells/ml.
- 3) Transfer 100 μ l cells to a 96-well flat bottom plate.
- 4) Centrifuge and resuspend cells in 95 μ l 1x Binding Buffer.
- 5) Add 5 μ l of SBV440 conjugated Annexin V
- 6) Mix and incubate for 10 minutes at room temperature in the dark.
- 7) Centrifuge and resuspend cells in 200 μ l of 1x Binding Buffer.
- 8) Resuspend cells in 200 μ l of 1x Binding Buffer and add viability dye of choice at previously optimized concentration (e.g. DAPI or PI at 1 μ g/ml).
- 9) Analyze by flow cytometry immediately. If not analyzed immediately, store at 2-8°C in the dark for maximum 4 hours, experimental design permitting.

Storage This product is shipped at ambient temperature.
Store at +4°C. DO NOT FREEZE.
This product should be stored undiluted.

Guarantee 12 months from date of despatch

Acknowledgements This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts

Health And Safety Information Material Safety Datasheet documentation #20471 #20512 available at: <https://www.bio-rad-antibodies.com/SDS/ANNEXINSBV440>
Annexin:SBV440 (20471)
10x Binding Buffer (20512)

Regulatory For research purposes only

Related Products

Recommended Useful Reagents

[ANNEXIN V:StarBright Blue 675 KIT \(ANNEXINSBB675\)](#)

[ANNEXIN V:StarBright Blue 765 KIT \(ANNEXINSBB765\)](#)

[ANNEXIN V:StarBright UltraViolet 400 KIT \(ANNEXINSBUV400\)](#)

[ANNEXIN V:StarBright UltraViolet 795 KIT \(ANNEXINSBUV795\)](#)

[ANNEXIN V:StarBright Violet 515 KIT \(ANNEXINSBV515\)](#)

[ANNEXIN V:StarBright Violet 790 KIT \(ANNEXINSBV790\)](#)

[ANNEXIN V:StarBright Yellow 800 KIT \(ANNEXINSBY800\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
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