Annexin V Conjugates

Annexin V fluorescent conjugates can be used to detect apoptotic cells. Annexin V is available conjugated to a wide variety of dyes.



Product Description

Annexin V fluorescent conjugates can be used to detect apoptotic cells. The human anticoagulant Annexin V is a 35-36 kDa calcium-dependent phospholipid-binding protein with high affinity for phosphatidylserine (PS). In normal viable cells, PS is located on the inner leaflet of the cytoplasmic membrane. In apoptotic cells, however, PS is translocated from the inner to the outer leaflet of the plasma membrane, where it can be detected by fluorescently labeled Annexin V.

- Detect apoptotic cells with fast, reliable detection of phosphatidylserine externalization
- Conjugates with wide choice of CF® Dye colors, plus biotin, R-PE, APC, and other fluorescent dyes
- Biotium's CF® Dyes have superior brightness, photostability, and are water-soluble
- Can be used for fluorescence microscopy, live cell imaging, and flow cytometry

CF® Dye, biotin, and FITC conjugates of Annexin V are provided as 50 ug/mL solutions in 10 mM Tris, 1 mM EDTA, 30 mM NaCl, 1 mg/mL bovine serum albumin, 0.1% sodium azide, pH 7.5. R-PE and APC Annexin V conjugates are supplied in PBS, 5 mg/mL BSA, 0.05% sodium azide at 5 uL per test.

Detect Apoptosis

We also offer Annexin V Conjugates, Azide-Free and Lyophilized in colors ranging from UV to far-red for live cell staining, and Near-IR CF® Dye Annexin V (also lyophilized and preservative-free), compatible with small animal NIR *in vivo* imaging. Annexin V is also available with other probes in our Apoptotic and Necrotic Staining Kits. See our full selection of Cell Viability and Apoptosis Assays.

Superior CF® Dyes

Biotium's next-generation CF® Dyes were designed to be highly water-soluble with advantages in brightness and photostability compared to Alexa Fluor®, DyLight®, and other fluorescent dyes. Learn more about CF® Dyes.

Note: Conjugates of blue-fluorescent dyes like CF®350, CF®405S and CF®405M are not recommended for detecting low abundance targets and may be challenging to use in tissue specimens. Blue dyes have lower fluorescence and photostability, and cells and tissue have high autofluorescence in blue wavelengths, resulting in lower signal to noise compared to other colors.

Product attributes

Storage Conditions	Store at 2 to 8 °C, Do not freeze, Protect fluorescent conjugates from light
Apoptosis/viability marker	Phosphatidylserine/Annexin V
For live or fixed cells	For live/intact cells
Assay type/options	Endpoint assay, Homogeneous assay, No-wash staining, Real-time imaging, Short term staining (<24h)
Detection method/readout	Fluorescence microscopy, Live cell imaging, Flow cytometry
Format	Fluorescent dye & biotin conjugates: Supplied in 10 mM Tris pH 7.5, 1 mM EDTA, 30 mM NaCl, 1 mg/mL BSA, 0.1% sodium azide R-PE & APC conjugates: Supplied in PBS, 5 mg/mL BSA, 0.05% sodium azide
Colors	Blue, Green, Orange, Red, Far-red, Near-infrared
Fixation options	Fix after staining (formaldehyde)
Product origin	Annexin V (human); recombinant, produced in E. coli, Product may contain either bovine serum albumin (BSA) from bovine serum (Bos taurus), or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.

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Product	Ex/Em	Concentration	Size	Catalog No.
CF®350 Annexin V	347/448 nm	50 ug/mL	0.5 mL	Purchase 29012
CF®405M Annexin V	408/452 nm	50 ug/mL	0.5 mL	Purchase 29009
CF®450 Annexin V	450/538 nm	50 ug/mL	0.5 mL	Purchase 29083
CF®488A Annexin V	490/515 nm	50 ug/mL	0.5 mL	Purchase 29005
CF®555 Annexin V	555/565 nm	50 ug/mL	0.5 mL	Purchase 29004
CF®568 Annexin V	562/583 nm	50 ug/mL	0.5 mL	Purchase 29010
CF®583R Annexin V	586/609 nm	50 ug/mL	0.5 mL	Purchase 29085
CF®594 Annexin V	593/614 nm	50 ug/mL	0.5 mL	Purchase 29011
CF®633 Annexin V	630/650 nm	50 ug/mL	0.5 mL	Purchase 29008
CF®640R Annexin V	642/662 nm	50 ug/mL	0.5 mL	Purchase 29014
CF®647 Annexin V	650/665 nm	50 ug/mL	0.5 mL	Purchase 29003
CF®660R Annexin V	663/682 nm	50 ug/mL	0.5 mL	Purchase 29069
CF®740 Annexin V	742/767 nm	50 ug/mL	0.5 mL	Purchase 29126
R-PE Annexin V	496, 546, 565/578 nm	5 uL/test	100 uL	Purchase 29045-100uL
500 uL	Purchase 29045-500uL			
APC Annexin V	650/660 nm	5 uL/test	100 uL	Purchase 29057-100uL
500 uL	Purchase 29057-500uL			
FITC Annexin V	496/516 nm	50 ug/mL	0.5 mL	Purchase 29001
Biotin Annexin V	N/A	50 ug/mL	0.5 mL	Purchase 29013
5X Annexin V Binding Buffer	N/A	5X	15 mL	Purchase 99902

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References

Download a list of curated CF® Dye Annexin V references.

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