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Annexin V CF® Dye Conjugates, Azide-Free, Lyophilized

Preservative-free Annexin V conjugates are compatible with real-time staining of apoptotic cells for live cell imaging, fluorescence microscopy, or flow cytometry.



Product Description

CF® Dye Annexin V Conjugates can be used to stain the surface of 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.

- Azide-free for no-wash, real-time live cell imaging in culture medium
- Fast & simple detection of phosphatidylserine on apoptotic cells
- Choice of 11 CF® dye colors with superior brightness & photostability
- For real-time live cell imaging, fluorescence microscopy, or flow cytometry

Preservative Free for Real-Time, Live Cell Imaging

Annexin V conjugates typically are supplied as stock solutions with azide as a preservative for end-point staining assays in Annexin V binding buffer. Our azide-free CF® Dye Annexin V Conjugates are supplied as lyophilized solids with no azide or other preservatives that might be incompatible with live cell imaging. After reconstitution in buffer, the conjugates can be added to cell culture medium for no-wash, real-time live cell imaging. Our [Mini Syringe Filters](#) are convenient for small volume sterile filtration of azide-free Annexin V stock solutions or other aqueous solutions for use in cell culture.

See Annexin V staining in real time:

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.

More Apoptosis Assays

We also offer [Near-IR CF® Dye Annexin V Conjugates](#), preservative-free and lyophilized, compatible with small animal in vivo imaging. [Annexin V Conjugate](#) solutions (with azide) also are available with a large selection of CF® Dyes, biotin, R-PE, APC, and other labels. 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](#).

Product attributes

| | |
|-----------------------------------|---|
| Apoptosis/viability marker | Phosphatidylserine/Annexin V |
| For live or fixed cells | For live/intact cells |
| Detection method/readout | Fluorescence microscopy, Live cell imaging, Flow cytometry |
| Assay type/options | Endpoint assay, Homogeneous assay, Long term staining (24-72h), No-wash staining, Real-time imaging |
| Colors | Blue, Green, Red, Far-red |
| Fixation options | Fix after staining (formaldehyde) |
| Product origin | Annexin V (human); recombinant, produced in E. coli |

CF® Dye Annexin V Conjugates, Azide-Free, Lyophilized

| Conjugation | Ex/Em | Size | Catalog No. | Dye Features |
|-------------------------|------------|------|----------------------------|----------------------------------|
| CF@350 | 347/448 nm | 5 ug | 29012-5ug | CF@350 Features |
| CF@405M | 408/452 nm | 5 ug | 29009-5ug | CF@405M Features |
| CF@450 | 450/538 nm | 5 ug | 29083R-5ug | CF@450 Features |
| CF@488A | 490/515 nm | 5 ug | 29005R-5ug | CF@488A Features |
| CF@555 | 555/565 nm | 5 ug | 29004R-5ug | CF@555 Features |
| CF@568 | 562/583 nm | 5 ug | 29010R-5ug | CF@568 Features |
| CF@583R | 586/609 nm | 5 ug | 29085R-5ug | CF@583R Features |
| CF@594 | 593/614 nm | 5 ug | 29011R-5ug | CF@594 Features |
| CF@633 | 630/650 nm | 5 ug | 29008R-5ug | CF@633 Features |
| CF@640R | 642/662 nm | 5 ug | 29014R-5ug | CF@640R Features |
| CF@647 | 650/665 nm | 5 ug | 29003R-5ug | CF@647 Features |
| CF@660R | 663/682 nm | 5 ug | 29069R-5ug | CF@660R Features |

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References

Download a list of [CF® dye Annexin V references](#).

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