

# Product Information

## 5X Annexin Binding Buffer

**Size:** 15 mL

**Concentration:** 5X

**Form:** Colorless solution

### Storage and Handling

Product is stable for 6 months at 4 °C.

### Product Description

The human anticoagulant annexin V is a 35-36 kilodalton, Ca<sup>2+</sup>-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. However, in apoptotic cells, PS is translocated from the inner to the outer leaflet of the plasma membrane, where it can be detected by a fluorescently labeled annexin V. 5X Annexin Binding Buffer is a concentrated stock solution used to prepare 1X Annexin Binding Buffer, which is optimized for staining cells with Annexin V conjugates.

Note: Annexin V cannot be used to stain fixed cells or tissue sections.

### Protocol

Dilute the 5X Annexin V Binding Buffer to 1X working concentration with ultra-pure water. Rinse cells once with PBS, followed by 1X Annexin V Binding Buffer. Dilute Annexin V conjugate with 1X Annexin V Binding Buffer and incubate cells for 30 minutes in the dark. Rinse stained cells twice with 1X binding buffer and visualize by fluorescence detection of choice.

Staining concentrations for fluorescent Annexin V conjugates typically range from 0.25 ug/mL to 2.5 ug/mL. We recommend determining the optimal staining concentration empirically. Generally, higher concentrations of Annexin V should be used for microscopy based assays and lower concentrations may be used for flow cytometry.

### Related Products

Catalog No.	Product Description	Unit Size
30065	Apoptosis & Necrosis Quantitation Kit Plus	50 assays
30060	CF™ 488A Annexin V and 7-AAD Apoptosis Kit	50 assays
30061	CF™ 488A Annexin V and PI Apoptosis Kit	50 assays
30029	NucView™ 488 Caspase-3 Assay Kit for Live Cells	50 assays
30067	NucView™ 488 Caspase-3 Substrate and CF™ 594 Annexin V Dual Apoptosis Assay Kit	50 assays
29012	Annexin V, CF350 Conjugate	0.5 mL
29009	Annexin V, CF405M Conjugate	0.5 mL
29005	Annexin V, CF488A Conjugate	0.5 mL
29004	Annexin V, CF555 Conjugate	0.5 mL
29010	Annexin V, CF568 Conjugate	0.5 mL
29011	Annexin V, CF594 Conjugate	0.5 mL
29008	Annexin V, CF633 Conjugate	0.5 mL
29014	Annexin V, CF640R Conjugate	0.5 mL
29003	Annexin V, CF647 Conjugate	0.5 mL
29007	Annexin V, CF680 Conjugate	25 ug
29006	Annexin V, CF750 Conjugate	25 ug
30062	NucView™ 488 and MitoView™ 633 Apoptosis Kit	50 assays
30001	JC-1 Mitochondrial Membrane Detection Kit	100 assays
30063	CF™ 488A TUNEL Assay Apoptosis Detection Kit	50 reactions
30064	CF™ 594 TUNEL Assay Apoptosis Detection Kit	50 reactions

A full selection of CF™ dye labeled products including secondary antibodies, antibody labeling kits, and other bioconjugates such as phalloidins, streptavidins and a-bungarotoxin are also available. Please visit the Biotium website at [www.biotium.com](http://www.biotium.com) for details.