

Annexin V-AF 488 conjugate

<http://www.lumiprobe.com/p/annexin-v-af488-fitc>

Annexin V (or Annexin A5) belongs to the phospholipid-binding Annexin family of intracellular proteins. In flow cytometry and fluorescent microscopy, Annexin V is commonly used to detect apoptotic cells by its ability to specifically bind to phosphatidylserine, which migrates from the inner to the outer leaflet of the plasma membrane during the early stages of apoptosis.

This Annexin V is a lyophilized conjugate with AF 488, a bright, photostable green fluorophore with spectral characteristics similar to FITC (absorption max. at 495 nm, emission max. at 519 nm).

Annexin V-AF 488 staining alone does not segregate the populations of apoptotic and necrotic cells. For this, additional staining with nuclear dyes that do not penetrate living cells — with [propidium iodide](#) or [YODi-3](#) is required. For this purpose, you can also use our ready-to-use [Annexin V-AF 488 apoptosis detection kit](#).

General properties

Appearance:	dark orange solid
Solubility:	good in water
Storage conditions:	Transportation: at room temperature for 1 week. Store at -20°C 9 months.
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Spectral properties

Excitation/absorption maximum, nm:	495
ϵ , L·mol ⁻¹ ·cm ⁻¹ :	71800
Emission maximum, nm:	519
Fluorescence quantum yield:	0.91
CF ₂₆₀ :	0.16
CF ₂₈₀ :	0.10