

## 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](#).

Dissolve the content of the Annexin V-AF lyophilized conjugate tube in 50  $\mu\text{L}$  (11515) or in 250  $\mu\text{L}$  (21515) of deionized water.

**Important!** *The dissolved conjugate should be stored protected from light at 2-8 °C. In solution, the conjugate is stable for a month. For longterm use, it is recommended to prepare aliquots and store them at -20 °C. Avoid re-freezing!*

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### General properties

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

Excitation/absorption maximum, nm:	495
$\epsilon$ , $\text{L}\cdot\text{mol}^{-1}\cdot\text{cm}^{-1}$ :	71800
Emission maximum, nm:	519
Fluorescence quantum yield:	0.91
$\text{CF}_{260}$ :	0.16
$\text{CF}_{280}$ :	0.10