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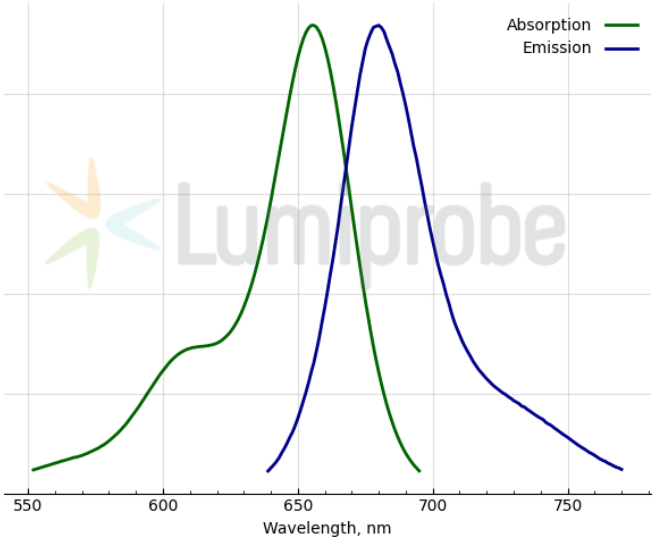
Annexin V-AF 647 conjugate

http://www.lumiprobe.com/p/annexin-v-af647

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 647, a bright, photostable, hydrophilic far-red fluorophore with spectral characteristics similar to Cyanine5 (absorption max. at 655 nm, emission max. at 680 nm). Far-red fluorescent tags with excitation above 600 nm and emission further than 650 nm are valuable for imaging techniques because of the lower background autofluorescence at these wavelengths.

Annexin V-AF 647 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 647 apoptosis detection kit.



Absorption and emission spectra of AF 647

General properties

Appearance:	blue solid
Solubility:	good in water
Storage conditions:	Transportation: at room temperature for 1 week. Store at -20°C for 9 months.
Legal statement:	This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.

Spectral properties

Excitation/absorption maximum, nm:	655
Emission maximum, nm:	680