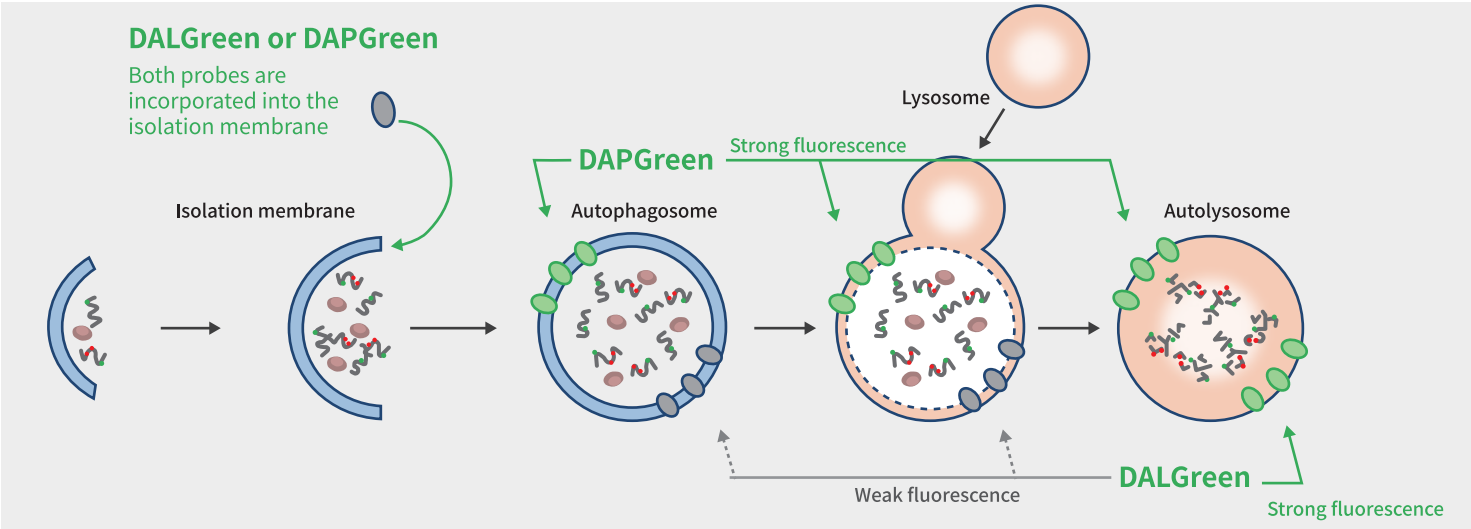
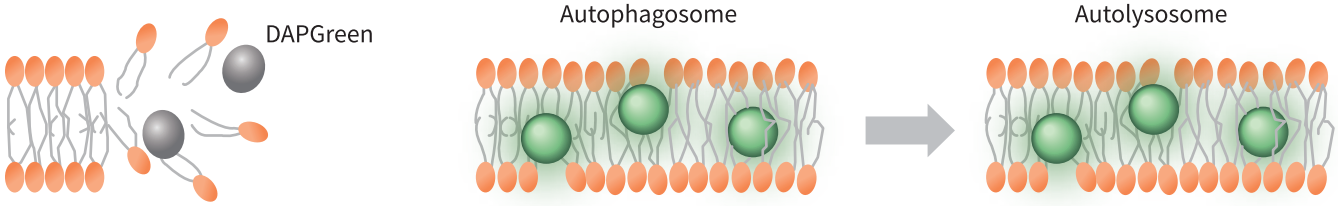
Autophagy Detection Kit



Detection of Autophagosome DAPGreen

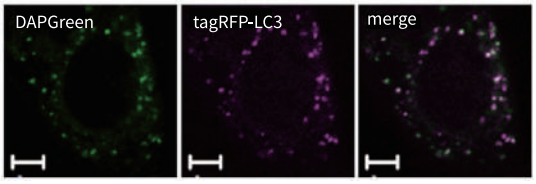


When an autophagosome membrane is formed, DAPGreen is incorporated inside of the membrane. The fluorescence of incorporated DAPGreen, which is a pH-insensitive probe, is enhanced under lipophilic condition

Simple step

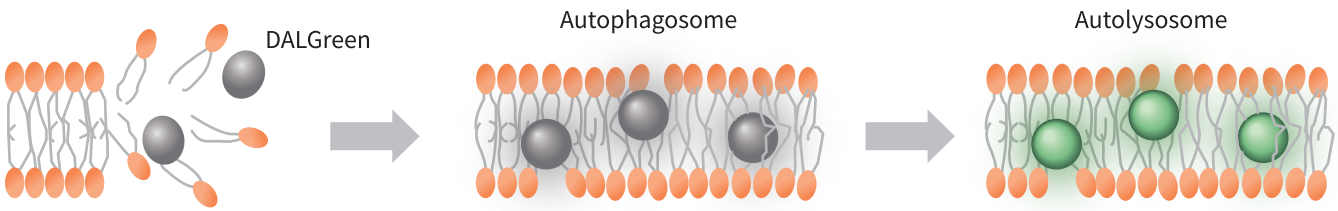
- 번거로운 GFP transfection 없이 간편하게 Live cell에 시약 처리

High Correlation with LC3



다양한 Application

- Fluorescent microscope
- Flow cytometer
- Microplate reader

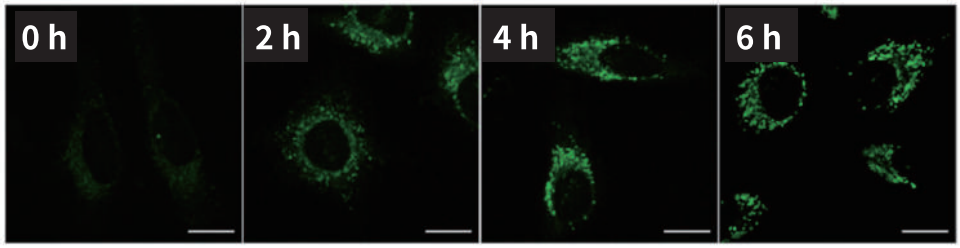


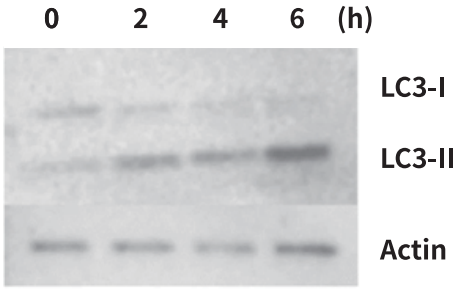
In the same way as DAPGreen is incorporated inside of the autophagosome membrane when the membrane is formed. The fluorescence of DALGreen, which is a pH-sensitive probe, is enhanced under acidic condition after the autophagosome is fused with the lysosome.

Simple step

- 번거로운 GFP transfection 없이 간편하게 Live cell에 시약 처리

High Correlation with LC3





다양한 Application

- Fluorescent microscope
- Flow cytometer

	Machines available			Fluorescent property	Volume/ the number of usable assays	Existing methods	Application
	Fluorescent Microscope	Flow cytometer	Microplate reader				
DAPGreen	○	○	○	Ex. 425-475 Em. 500-560 ※For confocal microscope, the sample can be excited at 488nm	5 nmol x 1 / 35 mm dish x 25 (when used with max. concentration)	LC3-GFP MDC Cyto-ID etc.	phagophore ~Autophagosome formation
DALGreen	○	○	×	Ex. 350-450 Em. 500-560 ※For confocal microscope, the sample can be excited at 488nm	20 nmol x 1 / 35 mm dish x 10 (when used with max. concentration)	LC3-GFP-RFP etc.	Auto lysosome