

## **DAPI Permeability**

DAPI (4',6-diamidino-2-phenylindole) is a fluorescent stain often used to differentiate between live and dead cells for **viability** measurements in flow cytometry. This reagent is a popular choice due to its short incubation time and high relative brightness. Similar to other reagents, DAPI staining conditions must be optimized for best experimental results.



DAPI is a fast acting, bright fluorochrome which binds to the Adenine-Thymine regions in dsDNA. It is important to remember that DAPI can be permeable to live cells. DAPI uptake by live cells can be prevented by optimizing concentration, adding it immediately prior to acquisition and controlling sample temperature, understanding that ideal conditions can vary across cell types.

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