

Propidium Iodide or 7-AAD Viability Staining Protocol

Propidium Iodide (PI) Cat. No. 13-6990

7-AAD Cat. No. 13-6993

Note: Propidium Iodide and 7-AAD are not compatible with intracellular staining protocols that require fixation and permeabilization. For these applications we recommend use of Tonbo Biosciences Ghost Dyes.

Caution: Propidium Iodide and 7-AAD are potential carcinogens. Protect skin and eyes by wearing suitable protective clothing, gloves and eye/face protection.

Other Materials Required

- Flow Cytometry Staining Buffer (Stain Buffer) (1X PBS with 2% FBS, 0.09% Na-Azide)

Experimental Procedure

1. Stain cell surface antigen(s).
2. Wash cells in Stain Buffer. Centrifuge at 300-400 x g for 5 minutes at room temperature and discard supernatant.
3. Resuspend in appropriate volume of Stain Buffer for acquisition, typically 0.5-1 mL.
4. **For PI:** add 10 uL (0.5 ug) to each sample.
OR
5. **For 7-AAD:** add 5 uL (0.25 ug) to each sample.
6. Incubate samples for 5-10 minutes in the dark prior to data acquisition.
7. Do not wash the cells after addition of Propidium Iodide or 7-AAD.
8. Analyze cells as soon as possible after the incubation period as prolonged exposure to Propidium Iodide or 7-AAD can have adverse effects on cell viability.