

## Fixation & Permeabilization Kit

Cat. No.	Component	Size
0215-01	Fixation / Permeabilization Buffer (1X) - Reagent 1	50 mL
	Permeabilization Wash Buffer (10X) - Reagent 2	50 mL

### Overview

SouthernBiotech Fixation & Permeabilization Kit is designed for intracellular staining procedures such as the staining of intracellular cytokines and other cytoplasmic molecules. It allows for the simultaneous fixation and permeabilization of cells in one step followed by the staining and analysis of intracellular proteins by flow cytometry. The wash buffer is specifically formulated to minimize non-specific staining and maximize fluorescence signal intensities. It can also be used to permeabilize cells following fixation.

### Applications

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### Product Use

- Dilute Permeabilization Wash Buffer (10X) - Reagent 2 to 1X in deionized water
- Following cell preparation and/or cell surface staining, wash tubes ( $1 \times 10^6$  cells/tube), and discard supernatant (final volume should be  $\leq 100 \mu\text{L}$ )
- Add 0.5 mL of Reagent 1 to each tube, vortex gently, and incubate for 30 minutes at ambient temperature avoiding light
- Add 1.0 mL of 1X Reagent 2 to each tube, wash cells, and discard supernatant
- Wash cells with 1.0 mL 1X Reagent 2 and discard supernatant
- Dilute antibodies for intracellular staining to optimal working dilution in 1X Reagent 2
- Add diluted antibodies to tubes, vortex gently, and incubate for 30 minutes at 2-8°C avoiding light
- Add 1.0 mL 1X Reagent 2 to each tube, wash cells, and discard supernatant
- Wash cells with 3.0 mL of Cell Staining Buffer (SB Cat. No. 0225-01) and discard supernatant
- Resuspend cells in 0.3 mL of PBS containing 0.5% formaldehyde and analyze
- Note – Samples should be analyzed within 2 hours when stored at ambient temperature and within 24 hours when stored at 2-8°C

### Handling and Storage

- Fixation / Permeabilization Buffer (1X) - Reagent 1 is supplied as 50 mL. Store at 2-8°C.
- Permeabilization Wash Buffer may vary in color from lot to lot and may contain visible precipitate; this does not affect the performance of the product
- Permeabilization Wash Buffer (10X) - Reagent 2 is supplied as 50 mL. Store at 2-8°C
- Reagents are stable for the period shown on the label if stored as directed.

### Warning

Some reagents contain formaldehyde and sodium azide. Please refer to product specific SDS.

**For Research Use Only. Not for Diagnostic or Therapeutic Use.**

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