

Immunostaining Wash Buffer (10X)

Introduction

Immunostaining Wash Buffer (10X) can be used for washing after fixation, primary antibody incubation, or secondary antibody incubation in immunostaining techniques such as immunofluorescence (IF), immunohistochemistry (IHC), and immunocytochemistry (IC). Proper washing reduces background and enhances the signal-to-noise ratio.

This immunostaining wash buffer contains an appropriate amount of Triton X-100, which permeabilizes cell membranes. Cells or tissue samples treated with this wash buffer enable the detection of intracellular target proteins, including those in the cytoplasm and nucleus.

Based on a wash volume of 0.1–1 mL of Immunostaining Wash Buffer (1X) per sample, one 100 mL package of this product can be used for 1,000–10,000 sample washes.

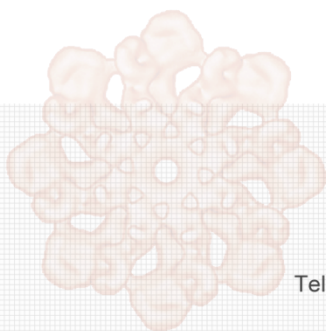
Protocol

1. Pour one bottle of Immunostaining Wash Buffer (10X) into a clean graduated cylinder. Add deionized or distilled water, mix well, and bring the volume to 1 liter to prepare Immunostaining Wash Buffer (1X), which is ready for use in immunostaining washes. Any unused diluted buffer is recommended to be stored at 4°C and is generally usable within 2 weeks. If the buffer becomes turbid, develops precipitate, or shows any other abnormalities, it should be discarded.
2. After completion of fixation, primary antibody incubation, or secondary antibody incubation, add a small amount of Immunostaining Wash Buffer (1X) sufficient to cover the sample. Wash with gentle shaking on an orbital shaker for 5 minutes, then aspirate the wash buffer and add fresh wash buffer. Repeat for a total of 3 washes, each lasting 5 minutes. Then proceed with subsequent steps.
3. If shaking tends to dislodge the samples, washing can be performed by soaking without shaking. In the case of soaking without shaking, extend the wash time appropriately to 8–10 minutes per wash and increase the number of washes to 4–5 times. If the immunostaining background remains high under the above washing conditions, the wash time can be extended and the number of washes increased. Generally, extending wash time or increasing the number of washes does not negatively affect immunostaining results.

Note

1. After dilution to Immunostaining Wash Buffer (1X), it is recommended to store the buffer at 4°C and use within 1–2 months. If stored at room temperature, it should be used within 1–2 weeks.

2. Storage conditions: Stable for one month when stored at room temperature; stable for one year when stored at 4°C; can be stored long-term at -20°C.
3. This product is for scientific research use only.



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