

Immunol Staining Blocking Solution

Introduction

Immunol Staining Blocking Buffer is used for blocking sections or cell samples in immunostaining. After blocking, non-specific binding of subsequent primary or secondary antibodies to the sample is reduced, background is lowered, and the signal-to-noise ratio is enhanced.

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

The main active components of this product include an optimally balanced amount of BSA and appropriate detergents. These ingredients effectively block non-specific protein binding sites on the sample while reducing non-specific binding of subsequent primary and secondary antibodies.

This product can be used for diluting primary antibodies, but the use of Immunol Staining Primary Antibody Dilution Buffer (K4655), which is specifically designed for primary antibody dilution in immunostaining, is highly recommended.

Based on a blocking volume of 5–10 mL per set of samples, one 100 mL package of this blocking buffer can block 10–20 sets of samples.

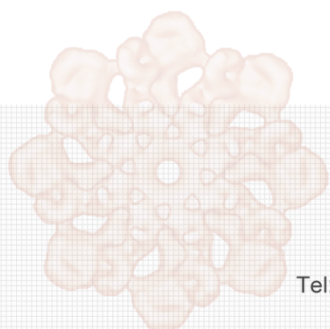
Protocol

For sections or cell samples, after fixation, wash once with Immunostaining Wash Buffer (Note: Paraffin-embedded sections require deparaffinization first). Then block using Immunol Staining Blocking Buffer. A blocking time of 60 minutes is generally recommended. Blocking can be performed with gentle shaking on an orbital shaker. If the samples tend to detach during shaking, the incubation can be performed without any shaking on a flat surface; this yields slightly less effective blocking but still meets routine requirements. After blocking, proceed with primary antibody incubation and subsequent steps.

Note

1. Blocking at room temperature for 60 minutes is generally sufficient. For antibodies with very high background, blocking can be performed overnight at 4°C.
2. Storage conditions: Store at 4°C; stable for one year. For long-term storage when not in frequent use, can be stored at -20°C.

3. This product is for scientific research use only.



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