



YamayBio

Protein-Free Blocking Buffer (1x)

QUICK START GUIDE

For research use only.
Not for use in diagnostic procedures.

Contents and Storage

Protein-Free Blocking Buffer (1×)

BM3152 500 ml

Storage: Store at 4 °C for 12 months. The product is shipped at room temperature.

Introduction

Protein-Free Blocking Buffer is a non-protein-based formulation designed to provide efficient blocking for membrane- and plate-based protein protein detection assays, resulting in extremely low background.

The buffer contains no endogenous phosphorylated proteins or biotin and therefore does not interfere with phosphorylation- or biotin-based detection systems.

By selectively blocking the membrane without hindering antibody binding, it significantly improves detection sensitivity and signal clarity.

Quick Start Protocol

1. After the protein transfer, remove the membrane from the transfer apparatus and wash in deionized water for 5 minutes with gentle agitation to remove residual transfer buffer.
2. Add 10-20 ml (or a sufficient volume) of blocking buffer to completely cover the membrane.
3. Incubate the membrane in blocking buffer for 10 minutes at room temperature with gentle shaking.
4. Proceed with the appropriate western blotting procedure for downstream detection.

Note:

- A blocking time of 5-15 minutes is generally effective for most antibodies.
- Evaluation with multiple antibodies has shown that a 10-minute blocking step typically provides better results than a 1-hour blocking step using conventional BSA.
- For antibodies that produce a high background, extending the blocking time to 30–60 minutes may be beneficial.
- If required, membranes may also be blocked overnight at 4 °C.