SwiftBlock™ Blocking Buffer for Immunol Staining (Fast)

Introduction

SwiftBlock™ Blocking Buffer for Immunol Staining (Fast) is a next-generation, rapid and efficient blocking solution formulated in PBS. This product contains no serum, albumin, biotin, or detergents, but includes preservatives that do not affect HRP or AP activity. It is suitable for blocking samples and diluting primary or secondary antibodies in Immunofluorescence (IF), Immunohistochemistry (IHC), Immunocytochemistry (IC), and similar experiments.

This blocking buffer is fast and efficient, typically requiring only 5–15 minutes. Compared to traditional blocking agents (e.g., BSA, non-fat dry milk, casein), it provides significantly stronger staining results. The absence of serum and albumin ensures an extremely high signal-to-noise ratio and very low background after blocking. It is compatible with horseradish peroxidase (HRP), alkaline phosphatase (AP), and biotin-labeled secondary antibodies. The product is convenient to use, requiring no additional reagents, and can be directly applied for sample blocking in immunostaining experiments.

This product is recommended for single use only, as repeated use often reduces blocking efficiency. However, for some primary antibodies with high signal-to-noise ratios (e.g., loading control antibodies), the buffer may be reused 2–3 times. Care should be taken to avoid mixing used blocking buffer with fresh, unused buffer.

Protocol

1. Sample Washing: Wash the fixed cell or tissue samples once with immunostaining wash buffer. For paraffin-embedded sections, deparaffinize before washing.
2. Blocking: Add an appropriate amount of blocking solution and block at room temperature for 10 minutes. The volume added per sample is typically 0.1–1 mL to ensure the sample is fully covered.

***Note:**
1. Blocking can also be performed for 10–180 minutes or overnight at 4°C, with gentle shaking on an orbital shaker.
2. If samples tend to detach during shaking, they can be left stationary on the bench without any shaking. The blocking effect will be slightly reduced but still meets routine requirements.
3. Among multiple antibodies tested, no significant difference was observed between blocking for 10–20 minutes, and blocking for 10 minutes was equivalent or superior to conventional blocking methods.

Note

1. Storage and transportation conditions: 4°C storage, valid for one year; It can be stored at -20°C if not used for a long time. Blue Ice Transport.
2. Related product recommendations are as follows:

Catalog No.	Product Name	Size
K4122	SwiftBlock™ Blocking Buffer (PBS, Fast)	100 mL/500 mL
K4123	SwiftBlock™ Blocking Buffer (PBSTw, Fast)	100 mL/500 mL
K4124	SwiftBlock™ Blocking Buffer (PBSTx, Fast)	100 mL/500 mL
K4125	SwiftBlock™ Blocking Buffer (TBS, Fast)	100 mL/500 mL
K4126	SwiftBlock™ Blocking Buffer (TBSTw, Fast)	100 mL/500 mL
K4127	SwiftBlock™ Blocking Buffer (TBSTx, Fast)	100 mL/500 mL
K4128	SwiftBlock™ Blocking Buffer (10X, Fast)	100 mL/500 mL
K4129	SwiftBlock™ Blocking Buffer for Western Blot (Fast)	100 mL/500 mL
K4130	SwiftBlock™ Blocking Buffer for Immunol Staining (Fast)	100 mL/500 mL
K4140	Primary Antibody Dilution Buffer for Western Blot (Fast)	100 mL/500 mL
K4662	Western Secondary Antibody Dilution Solution (Fast)	100 mL/500 mL
K4663	Immunol Staining Primary Antibody Dilution Solution (Fast)	100 mL/500 mL
K4664	Immunohistochemistry Secondary Antibody Dilution Solution (Fast)	100 mL/500 mL

3. This product is for scientific research use only.

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