Rapid protein-free blocking solution

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1. Product Introduction

Rapid protein-free blocking buffer contains no protein components and is mainly used for blocking non-specific binding sites of PVDF or nitrocellulose membrane (NC membrane) in Western Blot experiments. After blocking,it can reduce the non-specific binding of subsequent primary or secondary antibodies to the membrane, lower background staining, and enhance the signal-to-noise ratio.

Product Features:

Ready-to-use blocking solution, no preparation required.

It has a low background and a high signal-to-noise ratio, and its effect is superior to that of traditional blocking products such as skimmed milk powder, BSA, and casein.

Storage conditions:

The product can be stored at Room temperature for twelve months.

The product transportation temperature is normal temperature transportation.

2. Use Instructions

2.1 After the transfer is completed,transfer the film into a petri dish or other suitable container (the film does not need to be washed).

2.2 According to the size of the membrane, add an appropriate volume of blocking solution, which should completely isubmerge the covering membrane. For a 7.5x 8cm membrane,the recommended usage is 10-20ml.

2.3 Lncubate on a horizontal shaker at room temperature or 30 minutes.

2.4 Take out the sealed membrane and rinse the protein membrane with washing solution 2-3 times.It can be used for subsequent Western Blot experiments such as the incubation of the primary antibody .

3. Troubleshooting

Problem	Problem Cause	Solution
Weak signal or no signal	Insufficient sample loading	Increase the protein loading amount
	Low film transfer efficiency	Extend the transfer time, replace the newly prepared transfer buffer, or use the more efficient transfer buffer of the ACE brand
	Low antibody titer and poor specificity	Use antibodies with stronger specificity
Deep background	Excessive dosage of antibodies	Dilute the antibody correctly to the recommended concentration
	Insufficient protein membrane washing time	Reasonably increase the time and frequency of washing protein membrane with the washing solution.
	Protein contamination	Keep reagents or instruments and equipment clean and tidy during the experiment

4. Precautions

4.1 The sealing time typically used for PVDF membranes or NC membranes is 10 to 30 minutes. For some antibodies with a very high background, it is possible to try extending the blocking time to 30 to 60 minutes.

4.2 No single blocking agent is suitable for all antigen and antibody detection systems. If antibodies are not suitable for this reagent, please use other types of blocking agents, such as BSA or skimmed milk powder, etc.

4.3 This product is for research use only, please wear a lab coat and disposable gloves during operation.

5. Related Products

Product	Cat.No.	Size
Rapid protein-free blocking solution	BR0051-01	500 ml