



## NAP-Blocker™ In PBS

### A Non-Animal Protein Blocking Buffer

#### INTRODUCTION

NAP-Blocker™ is prepared from non-animal proteins and is one of the best blocking agents for immuno-assays. As a non-animal protein blocker, it offers an alternative to milk-based blocking agents, minimizing the risk of non-specific binding of antibodies during the immuno detection process and lowering the background. The NAP-Blocker™ is suitable for up to 100 mini blots in 1X concentration, when blocking and antibody incubation steps are performed in plastic bags to reduce the volume used. NAP-Blocker™ is also suitable for ELISA experiments.

#### ITEM(S) SUPPLIED

Cat. # 786-190P

NAP-Blocker™ In PBS [2X]	2 x 500ml
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#### STORAGE CONDITIONS

It is shipped at ambient temp. Upon arrival, store at 4°C. If stored and aseptic techniques are used for handling NAP-Blocker, it is stable for up to 1 year.

#### MATERIALS NEEDED BUT NOT SUPPLIED

PBS, Primary and secondary (labeled) antibodies, Reagents for immuno detection

#### PROTOCOL

**Note:** Gently shake the NAP-Blocker™ bottle before use to mix it. Use aseptic techniques for handling NAP-Blocker.

1. Prepare 1X NAP-Blocker™ by mixing 1 part NAP-Blocker™ in PBS with 1 part of 1X PBS for blocking PVDF membranes. For nitrocellulose membranes and ELISA experiments, mix 1 part NAP-Blocker™ in PBS with 2 parts 1X PBS.
2. Incubate the membrane with 15-20ml diluted NAP-Blocker in PBS (for ELISA plate, use volume as per well size) for 60 minutes at room temperature with shaking.
3. Dilute the Primary antibody in 15-20ml diluted [1:2 for PVDF and 1:4 for Nitrocellulose or ELISA plate] NAP-Blocker in PBS (antibody dilution is decided by the researcher). Incubate the membrane in diluted NAP-Blocker™ in PBS with primary antibody for 90 min at room temperature with shaking.
4. Wash the membrane 3-4 times in 20-25ml of 1X PBS for 5 minutes each with shaking at room temperature. Decant off the wash.
5. Dilute the secondary (labeled) antibody in diluted [1:2 for PVDF and 1:4 for Nitrocellulose or ELISA plate] NAP-Blocker in PBS (antibody dilution is decided by researcher). Incubate the membrane in 15-20 ml diluted NAP-Blocker™ in PBS with secondary antibody for 90 minutes at room temperature with shaking.
6. Wash the membrane 3-4 times in 20-25 ml of 1X PBS for 5 minutes each with shaking at room temperature.
7. Wash the membrane quickly with de-ionized water and then probe the blot using a chemiluminescent detection method or G-Biosciences's femto-LUCENT detection kit.

#### RELATED PRODUCTS

Tissue/Cell Lysates, Ready to use Western Blots, Protein Assay kits, Gel / Western blot Stains and others products.

**NOTE:** For other related products, visit our web site at [www.GBiosciences.com](http://www.GBiosciences.com) or contact us.

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