



## ChemiBLOCKER™ A NEW NON-ANIMAL PROTEIN FOR YOUR IMMUNO-ASSAYS

**CATALOG NUMBER:** 2170

**LOT NUMBER:** xxxxx

**QUANTITY:** 1 Liter (2 bottles of 500 mL each) (sufficient for 100 mini gel blots)

**DESCRIPTION:** The Millipore ChemiBLOCKER™ is a unique membrane-blocking agent. As a non-animal protein blocker it offers an alternative to milk-based blocking agents, minimizing the risk of non-specific binding of antibodies to your membrane and lowering your background. ChemiBLOCKER™ may be used at dilutions as high as 20x but for most applications, a 5 to 10 fold dilution is appropriate. ChemiBLOCKER™ is biotin free and will not interfere with ABC detection systems. ChemiBLOCKER™ does contain phosphates and may not be suitable for use with some phospho-specific antibodies.

**KIT COMPONENTS:** 2X ChemiBLOCKER 1 Liter

**MATERIALS REQUIRED BUT NOT SUPPLIED:**

- 1X femto/TBST (Catalog Number 2081), 1X TBST, or 1X PBST
- primary and secondary antibodies
- reagents for immunodetection

**PROTOCOL:**

1. Make up blocking solution by mixing 1 part ChemiBLOCKER™ with 1 part 1X femto-TBST/PBST (TBST or PBST also work) for blocking PVDF membranes. For nitrocellulose membranes and ELISA experiments, mix 1 part ChemiBLOCKER™ with 3 parts 1X femto-TBST (TBST or PBST also work). Note: See product data sheet for femto/TBST.
2. Incubate the membrane in diluted blocking solution (15-20 mL) for 60 minutes at room temperature with shaking in a heat-sealable plastic bag. For ELISA plate, use volume as per well size.
3. Prepare antibody dilution buffer (ADB). For PVDF membranes mix 1 part ChemiBLOCKER™ with 1 parts 1X femto-TBST/PBST (TBST or PBST also work). For Nitrocellulose membranes mix 1 part ChemiBLOCKER™ with 3 parts 1X femto-TBST/PBST (TBST or PBST also work). Incubate the membrane in 15-20 mL primary antibody, diluted appropriately with ADB, for 90 min at room temperature with shaking.
4. Wash the membrane 3-4 times in 20-25 mL of 1X femto-TBST (TBST or PBST also work) for 5 min each time at room temperature with shaking.
5. Incubate the membrane in 15-20 mL secondary antibody, diluted appropriately with ADB (For PVDF membranes mix 1 part ChemiBLOCKER™ with 1 parts 1X femto-TBST/PBST (TBST or PBST also work). For Nitrocellulose membranes mix 1 part ChemiBLOCKER™ with 3 parts 1X femto-TBST/PBST (TBST or PBST also work).), for 90 min at room temperature with shaking.
6. Wash the membrane as in step #4, but add one extra wash (4 washes total).
7. Wash the membrane 3 times quickly (30 sec.) in 20-25 mL pure deionized water each time and then process the blot, using the Chemiluminescent ECL Detection System (Catalog number 2600) (or your favorite system).



**STORAGE/HANDLING:** Store at 2-8°C for up to 1 year from date of receipt. Warm ChemiBLOCKER™ to room temperature and mix thoroughly before dispensing. To avoid possible microbial contamination, dispense all solutions aseptically. Over time, phenolic compounds may precipitate out of solution resulting in the formation of a small amount of dark brown to black particulate material at the bottom of the container. This material will not affect the performance of the blocking compound.

**Related Millipore Corp Products:**

Product Description	Qty	Cat. No.
<b>BLOT-QuickBlocker™</b> A novel blocking protein which produces a semi-clear solution. This allows users the option to examine their blot membranes during the blocking procedure.	200 g	2080
<b>Femto/TBST wash buffer (10X)</b>	250 mL	2081

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**Important Note:** *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

**FOR RESEARCH USE ONLY; NOT FOR USE IN DIAGNOSTIC  
PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION**

Unless otherwise stated in our catalog or other company documentation accompanying the product(s), our products are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.

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