

ClearBand PVDF Membrane, 30 cm x 3 m Roll

Troubleshooting Guide

0.22 µm, 0.45 µm

Cat No: PVDF022, PVDF045

Use this guide for common Western blot and membrane-handling problems with ClearBand PVDF Membrane. The membrane is available in 0.22-µm and 0.45-µm pore sizes, has high protein retention and solvent compatibility, and is highly hydrophobic.

Before You Start - Quick Checks

1. Store at room temperature.
2. Pre-wet the PVDF membrane with methanol before submerging it in transfer buffer.
3. Confirm the pore size required by the validated workflow.
4. Keep the membrane uniformly wetted and avoid dry spots during transfer setup.

Problem	Most likely cause	Recommended action
Protein transfer signal is weak	The PVDF membrane may not have been pre-wetted with methanol.	Pre-wet the hydrophobic PVDF membrane with methanol before placing it in transfer buffer.
Patchy or uneven transfer	The membrane may have been wetted unevenly or contains dry areas.	Ensure uniform methanol wetting followed by complete submersion in transfer buffer before assembling the transfer stack.
Membrane resists wetting in transfer buffer	PVDF is highly hydrophobic.	Use the required methanol pre-wetting step rather than attempting to wet dry PVDF directly with aqueous transfer buffer.
Results change after switching pore size	A different 0.22-µm or 0.45-µm membrane may have been used.	Use the pore size validated for the target and transfer workflow.
Background is higher than expected	The membrane may have been contaminated or downstream blocking/washing conditions may differ.	Handle the membrane cleanly and recheck the validated blocking/washing workflow.
Membrane curls or is hard to position	Wetting and handling may be uneven.	Wet the membrane uniformly and keep it fully immersed while assembling the transfer sandwich.
Wrong membrane type was substituted	PVDF requires methanol pre-wetting and differs from nitrocellulose.	Follow PVDF-specific preparation rather than carrying over nitrocellulose handling unchanged.
Performance changed after storage	Storage may not have followed the datasheet condition.	Store the membrane at room temperature and use clean, undamaged material.

Still having trouble? Recheck methanol pre-wetting, uniform hydration, membrane pore size, clean handling, and transfer-stack contact before changing antibody or imaging conditions.