




YamayBio PVDF and Nitrocellulose Western Blotting

Membranes: reliable solutions for every application. PVDF offers high protein-binding capacity, strong mechanical strength, and broad chemical compatibility, with support for fluorescence detection and repeated stripping. Nitrocellulose provides high protein affinity, good sensitivity, and resolution for routine protein and nucleic acid analysis. Both deliver low background for clear, consistent results.

-  **Unmatched Sensitivity for Rare Targets**
-  **Built to Withstand Repeated Stripping**
-  **High-Resolution, Ultra-Low Autofluorescence Background**

PRODUCT NAME	CAT. NO.	SPECIFICATION
PVDF Membrane, 0.22 µm	PVDFMR022 MIN IBP022 MIDIBP022	26.5 cm x 3.7 m, 1 roll Precut, 7 x 8.5 cm, 10 P Precut, 8.5 x 13.5 cm, 10 P
PVDF Membrane, 0.45 µm	PVDFMR045 MINIBP045 MIDIBP045	26.5 cm x 3.7 m, 1 roll Precut, 7 x 8.5 cm, 10 P Precut, 8.5 x 13.5 cm, 10 P
Nitrocellulose Membrane, 0.22 µm	NCMR022 MINIBN022 MIDIBN022	30 cm x 3.0 m, 1 roll Precut, 7 x 8.5 cm, 10 P Precut, 8.5 x 13.5 cm, 10 P
Nitrocellulose Membrane, 0.45 µm	NCMR045 MINIBN045 MIDIBN045	30 cm x 3.0 m, 1 roll Precut, 7 x 8.5 cm, 10 P Precut, 8.5 x 13.5 cm, 10 P



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Ready to enhance your Western blot results?
Scan QR Code and Order a Sample Today!

PVDF and Nitrocellulose Membranes: Uncompromising Sensitivity for Every Blot.

Achieve high sensitivity, low background, and superior stripping durability for reliable and cost-effective protein analysis across chemiluminescent and fluorescent applications.



KEY FEATURES

1. Unmatched Sensitivity for Rare Targets

Detect low-abundance proteins with confidence. Our optimized membrane chemistry delivers a high signal-to-background ratio, enabling reliable detection of target proteins down to 0.039 µg of total protein loading.

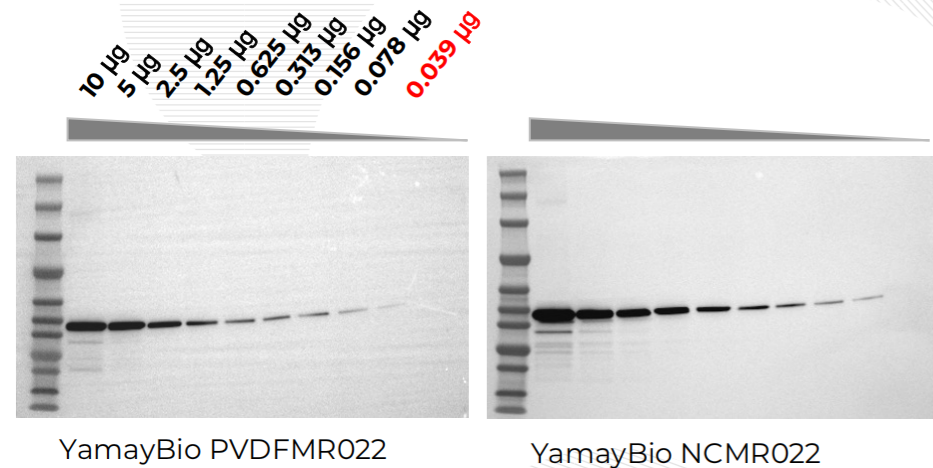


Fig. 1. Mouse muscle lysate was separated on a precast gel (AN9325) and transferred using Ice-free Bath Rapid Transfer Buffer (MS8135) at 400 mA for 45 min. Membranes (YamayBio PVDFMR022, PVDF membrane, 0.22 µm; YamayBio NCMR022, nitrocellulose membrane, 0.22 µm) were blocked with Protein-free Blocking Buffer (BM3152) for 15 min, probed with HRP-conjugated antibody (1:25,000, 1 h, RT), and detected by chemiluminescence. Reliable detection down to 0.039 µg protein loading.

Figure 1 shows high sensitivity detection across protein loading range.

2. Built to Withstand Repeated Stripping

A cost-effective way to maximize data. YamayBio membranes maintain signal integrity through multiple stripping cycles, enabling reliable re-probing for multiple targets without compromising signal integrity.

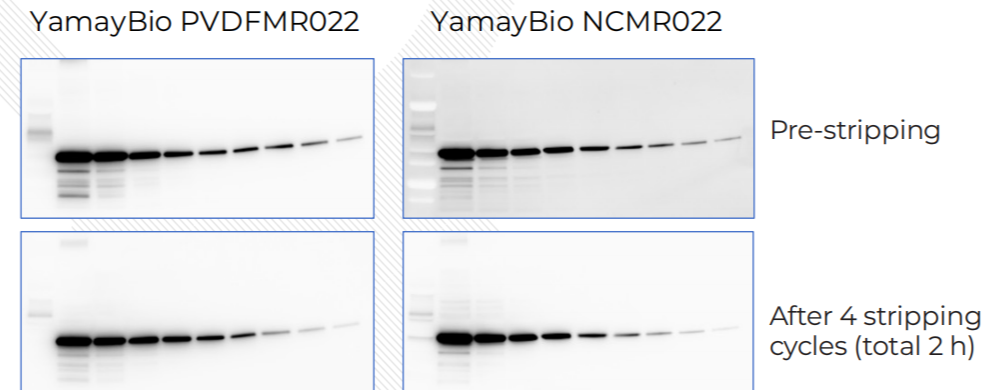


Fig. 2. Mouse muscle lysate was separated on a precast gel (AN9325) and transferred using Ice-free Bath Rapid Transfer Buffer (MS8135) at 400 mA for 45 min. Membranes (YamayBio PVDFMR022, PVDF membrane, 0.22 µm; YamayBio NCMR022, nitrocellulose membrane, 0.22 µm) were blocked with Protein-free Blocking Buffer (BM3152) for 15 min. Membranes were probed with GAPDH-HRP (1:25,000, 1 h, RT) and detected by chemiluminescence. After initial imaging, membranes were stripped with PS107 buffer and re-probed for four cycles (stripping times: 10, 20, 30, and 60 min; total 2 h). Signal integrity was maintained through all cycles.

Figure 2 shows excellent membrane re-probing performance.

3. High-Resolution, Ultra-Low Autofluorescence Background

Achieve higher contrast and improved sensitivity in multiplex fluorescent applications. YamayBio low-autofluorescence membranes ensure capturing clear, specific signals without the interference of background noise.

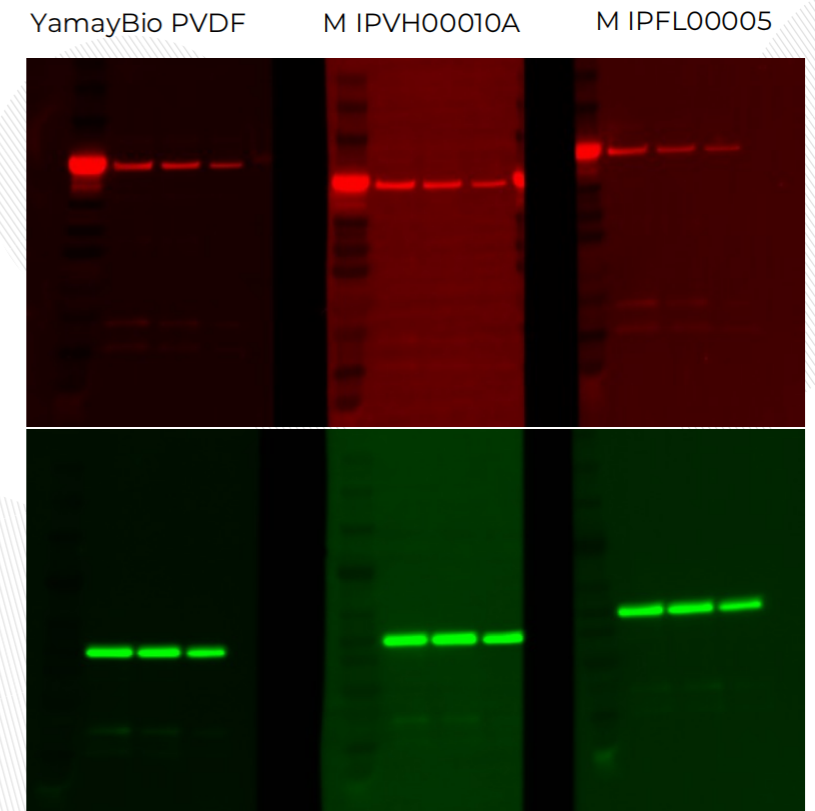


Fig. 3. HeLa cell lysates were separated on a Bis-Tris 4–20% precast gel and transferred using ice-free transfer buffer. Membranes tested included YamayBio PVDF membrane (0.45 µm) and two MilliporeSigma low-fluorescence PVDF membranes (0.45 µm). After blocking for 15 min, membranes were incubated with primary antibodies against HSP60 or GAPDH, followed by incubation with DyLight 550-labeled secondary antibody or DyLight 488-labeled secondary antibody, respectively.

As shown in Figure 3, YamayBio PVDF membrane shows significantly lower autofluorescence background compared to MilliporeSigma membranes under identical fluorescence imaging conditions. The reduced background enables higher contrast and improved sensitivity in multiplex fluorescent applications.