

Less antibody. Automated convenience. Superior results.

iBind™ Western System



The iBind™ Western System offers:

- **Cost savings**—use up to 80% less primary antibody*
- **Superior sensitivity**—detect proteins at lower levels than on manually processed blots
- **Reproducibility**—automated processing provides improved blot-to-blot consistency

The iBind™ Western System is an automated western blot processing platform that requires less primary antibody and delivers sensitive, reproducible western results. All blocking, antibody incubation, and washing steps are hands-free, allowing you to load your solutions and walk away. There's no electricity or battery required. You can also use your existing chemiluminescent, chromogenic, or fluorescent western detection protocols, including HRP-, AP-, Alexa Fluor® dye-, and IRDye® (LI-COR®)-conjugated secondary antibodies.

* Protocol for primary antibody uses 80% less than a traditional manual method protocol; results may vary.

Find out more at lifetechnologies.com/ibind

Get your iBind™ Starter Kit

All of the items you'll need to begin using the iBind™ Western System:

- iBind™ Western Device
- 1 box of iBind™ Cards (10/box)
- iBind™ Solution Kit**

**Use the iBind™ Fluorescent Detection (FD) Solution Kit for infrared and fluorescence-based detection with LI-COR® ODYSSEY® imagers.

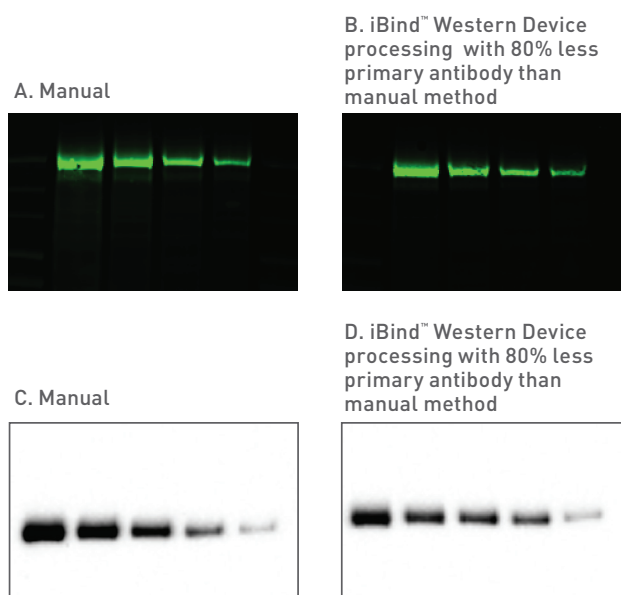


Figure 1. Western blots processed on the iBind™ device show results comparable to those from western blots processed manually. For all blots, proteins were separated using the Mini Gel Tank electrophoresis system and transferred to PVDF membranes using the iBlot® 7-Minute Blotting System. All blots were processed for detection of phospho-EGF receptor (**A, C**: 5x primary/5x secondary for manual method; **B, D**: 1x primary/5x secondary with iBind™ device). The iBind™ Fluorescence Detection (FD) Solution Kit was used for fluorescence detection (**A, B**). The standard iBind™ Solution Kit was used for the chemiluminescence blots (**C, D**).

Robust results with less primary antibody

One of the key elements of a successful western blot is the primary antibody; however, this reagent also contributes to over 90% of the total cost of the blot. Because the iBind™ Western System is more sensitive than manual processing methods, you can use lower antibody amounts to achieve similar results.

Using chemiluminescence- or fluorescence-based detection methods, you can use up to 80% less primary antibody than with manual methods, saving you significant costs per blot (Figure 1).

Superior western performance compared to manually processed blots

- The iBind™ system is designed to deliver greater sensitivity for many monoclonal and polyclonal antibodies compared to manual methods (Figures 2 and 3)
- Combine the iBind™ system with highly specific Novex® primary and secondary antibodies to help achieve clean western blots that only light up your target protein
- Automated processing provides better blot-to-blot consistency, with CVs of <5% vs. CVs of 13% for manual methods

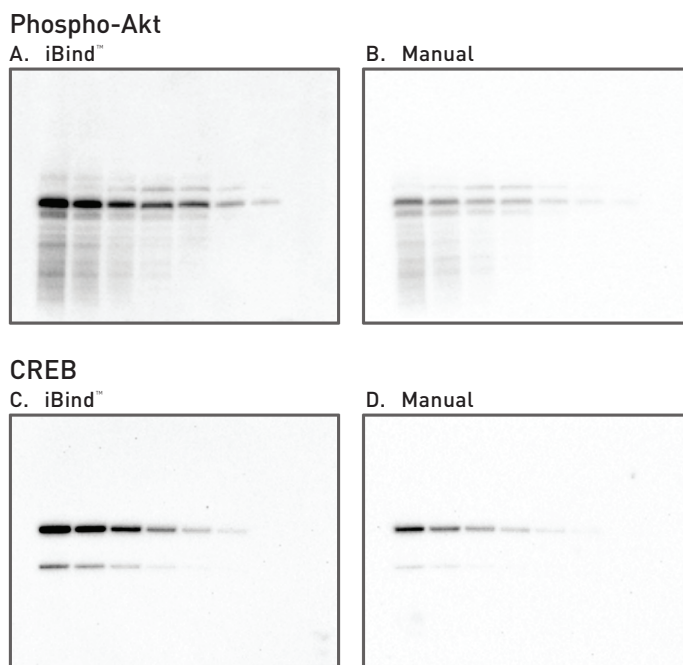


Figure 2. Western blots processed on the iBind™ device show superior sensitivity compared to western blots processed manually. (A, B) Western blots with phosphorylated Akt (left to right: 30 µg–500 ng cell extract load) were processed either on the iBind™ device or using standard manual western processing protocols as specified by the antibody manufacturer (monoclonal anti-phospho-Akt [Thr308] [C31E5E] primary antibody; HRP-conjugated anti-rabbit secondary antibody). The blot processed with the iBind™ device detected phospho-Akt in 500 ng of cell extract, while the target was detected in 4 µg on the manually processed blot. (C, D) Western blots with cell lysate expressing CREB (left to right: 30 µg–1 µg cell lysate load) were processed either on the iBind™ device or using standard manual western processing protocols as specified by the antibody manufacturer (polyclonal anti-CREB primary antibody; HRP-conjugated anti-rabbit secondary antibody). The blot processed with the iBind™ system detected CREB in 6 µg of cell lysate, while 10 µg of lysate was needed to detect CREB on the manually processed blot. For all blots, proteins were separated using the Bolt® Gel Electrophoresis System and transferred to PVDF membranes using the iBlot® 2 Dry Blotting System.

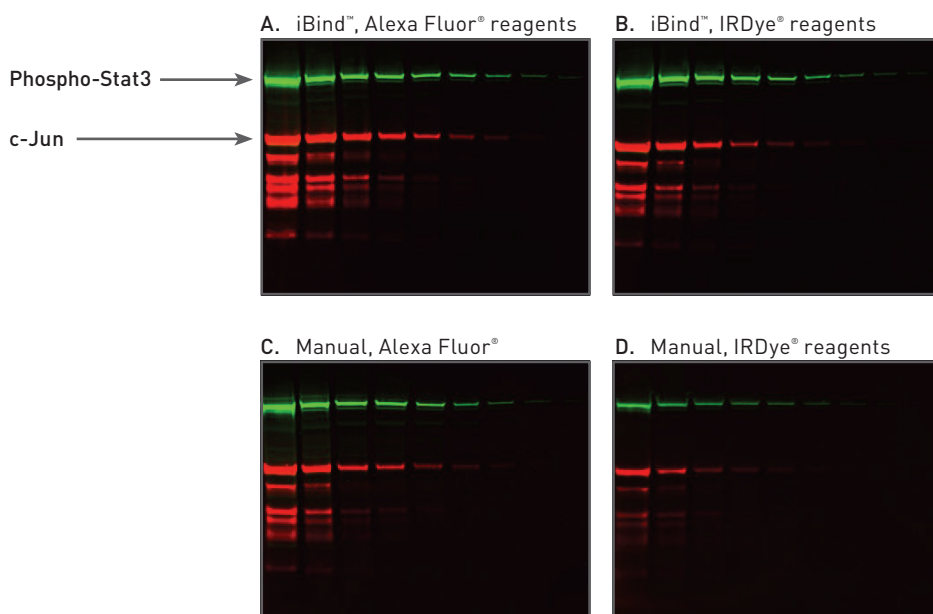


Figure 3. iBind™ system vs. manual western blotting with fluorescence-based detection of c-Jun and phospho-Stat3. Western blots of cell lysates containing phospho-Stat3 and c-Jun (left to right: 30 µg–120 ng lysate protein) were processed either on the iBind™ device or using standard manual western processing protocols as specified by the manufacturer for each antibody (monoclonal phospho-Stat3 [Tyr705] [M9C6] mouse primary antibody and monoclonal c-Jun [60A8] rabbit primary antibody). (A, C) Alexa Fluor® 680 goat anti-rabbit secondary antibody and Alexa Fluor® 790 goat anti-mouse secondary antibody. (B, D) IRDye® 680LT goat anti-rabbit secondary antibody and IRDye® 800CW goat anti-mouse secondary antibody. Blots processed with the iBind™ device detected both target proteins at lower levels than manually processed blots. For all blots, proteins were separated using the Bolt® Gel Electrophoresis System and transferred to NC membranes using the iBlot® 2 Dry Blotting System.

Everything you need to improve your western performance

Product	Quantity	List price	Cat. No.
iBind™ Western Device	1	\$900	SLF1000
iBind™ Window Cover	1	\$15	SLF1001
iBind™ Cards	10	\$120	SLF1010
iBind™ Fluorescent Detection (FD) Solution Kit	1 kit	\$75	SLF1019
iBind™ Solution Kit	1 kit	\$60	SLF1020
Novex® AP Mouse Chemiluminescent Detection Kit	1 kit	\$100	SLF1021
Novex® AP Rabbit Chemiluminescent Detection Kit	1 kit	\$100	SLF1022
iBind™ Western Starter Kit	1	\$999	SLF1000S
iBind™ Western Device 4 Pack	4	\$2,700	SLF10004PK
Novex® ECL Chemiluminescent Substrate Reagent Kit	1 kit	\$206	WP20005
Goat Anti-Rabbit IgG (H+L) Antibody, Horseradish Peroxidase (HRP) Conjugate, cross-adsorbed	1 mL	\$80	A16104
Goat Anti-Mouse IgG (H+L) Antibody, Horseradish Peroxidase (HRP) Conjugate, cross-adsorbed	1 mL	\$80	A16072
Goat Anti-Rabbit IgG (H+L) Antibody, Horseradish Peroxidase (HRP) Conjugate, highly cross-adsorbed	1 mg	\$110	A16110
Goat Anti-Mouse IgG (H+L) Antibody, Horseradish Peroxidase (HRP) Conjugate, highly cross-adsorbed	1 mg	\$114	A16078
Alexa Fluor® 790 Goat Anti-Mouse IgG (H+L), highly cross-adsorbed	0.5 mL	\$199	A11357
Alexa Fluor® 680 Goat Anti-Mouse IgG (H+L), highly cross-adsorbed	0.5 mL	\$199	A21058
Alexa Fluor® 790 Goat Anti-Rabbit IgG (H+L), highly cross-adsorbed	0.5 mL	\$199	A11369
Alexa Fluor® 680 Goat Anti-Rabbit IgG (H+L), highly cross-adsorbed	0.5 mL	\$199	A21109

Get your iBind™ Western Starter Kit now—
go to lifetechnologies.com/ibind



In the United States:

For customer service, call 1-800-766-7000

To fax an order, use 1-800-926-1166

To order online: www.fishersci.com

In Canada:

For customer service, call 1-800-234-7437

To fax an order, use 1-800-463-2996

To order online: www.fishersci.ca



A Thermo Fisher Scientific Brand