invitrogen

The iWestern workflow

An intelligent, start-to-finish western blotting solution

ThermoFisher
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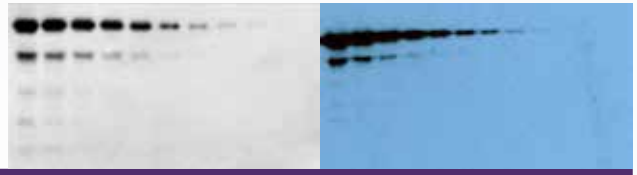
Streamline your western blotting workflow

We know your time is precious. The Invitrogen™ iWestern™ workflow bundle features innovative, modern solutions designed to address processing efficiency, reproducibility, and robustness of results.

At the core of the iWestern workflow bundle are four innovative products optimized to deliver the performance you expect from us. Combined, these products synergize to help you achieve exceptional western blotting results with minimal hands-on time.



Western steps	iWestern	Manual
Sample prep/gel electrophoresis	50 min	90 min
Transfer	7 min	75 min
Blocking	180 min	60 min
Primary incubation		720 min
Washes		60 min
Secondary incubation		60 min
Substrate incubation	5 min	5 min
Target detection	2 min	5 min
Total time	**244 min (approx. 4 hr)**	**1,075 min (approx. 18 hr)**

Compare workflow and data obtained using the iWestern workflow bundle and manual western blotting. The iWestern workflow enables the detection of HDAC1 in HeLa lysate in approximately 4 hr vs. 18 hr using the manual western workflow. Two-fold serial dilutions (starting with 20 µg of HeLa lysate) were loaded and separated on Tris-glycine gels. The proteins were transferred to nitrocellulose membranes and detected using Thermo Scientific™ SuperSignal™ West Pico PLUS chemiluminescent substrate.

Mini Gel Tank

Streamlined protein separation through creative tank design

With an intelligently engineered, side-by-side design, the Invitrogen™ Mini Gel Tank provides a forward-facing well configuration for easier sample loading and the simultaneous visualization of both gels, while the white-colored tank stand provides contrast to improve the monitoring of prestained markers during electrophoresis. Compatible with over 180 gels of different formats and gel chemistries, the Mini Gel Tank provides you with the flexibility to choose the best gel for the job.

The standard iWestern workflow bundle features the Invitrogen™ Bolt™ Gel Welcome Pack, which includes the Mini Gel Tank, two boxes of Bolt Bis-Tris Plus Gels, and necessary buffers. Choose a protein gel welcome pack with the chemistry of your choice (see table below) with our custom bundle option.

Gel chemistry	Application
Bis-Tris	Broad-range, low-abundance protein separation; downstream applications requiring high protein integrity (e.g., posttranslational modification analysis, mass spectrometry, or sequencing)
Tris-glycine	Broad-range, high-abundance protein separation
Tris-acetate	High molecular weight protein separation (up to 500 kDa)
Tricine	Low molecular weight protein separation (as low as 2 kDa)

iBlot 2 Dry Blotting System

Efficient protein transfer in only 7 minutes

The iBlot 2 Gel Transfer Device is our premium western blot transfer device, delivering high performance and convenience. A unique, innovative dry blotting system, the iBlot 2 device utilizes preassembled transfer stacks, with transfer buffer incorporated into gel matrices, so there's no need to prepare messy transfer buffers, and minimal post-transfer cleanup is required. The short distance between electrodes, along with high field strength and current, reduces transfer time to just 7 minutes. Just insert your gel and go. The standard iWestern workflow bundle includes the Invitrogen™ iBlot™ 2 Starter Pack with transfer stacks to get you started.

iBind Western Systems

Revolutionary western blot processing—no shakers, trays, or timers required

Two devices, one simple technology for western blot processing. The Invitrogen™ iBind™ and iBind™ Flex Western Devices are simple, unpowered devices that automate many of the tedious, routine western blot processing steps. The original iBind device accommodates the processing of one mini blot at a time, while the iBind Flex device accommodates the processing of up to one midi blot, two mini blots, or up to six vertically cut strips. The entire immunoblotting process is completed in less than 3 hours, uses up to 80% less primary antibody than traditional methods, and because processing is automated, blot-to-blot consistency can be improved.

Our standard iWestern workflow bundle comes with the Invitrogen™ iBind™ Starter Kit, which includes the necessary consumables to get started.

iBright Imaging Systems

Stunningly easy western blot imaging

Meet the Invitrogen™ iBright™ 1500 series imaging systems, which expand on the functionality of the popular Invitrogen™ iBright™ 1000 series systems—now featuring normalization workflows, expanded application support, and additional software enhancements. Complete with a powerful 9.1-megapixel camera, our proprietary Invitrogen™ Smart Exposure™ acquisition technology, cloud connectivity, and a suite of automated features, the iBright 1500 systems let you capture and analyze western blots and gels faster and more easily than before.

iBright systems feature a clean, simple interface that enables users to easily harness the full capabilities of the platform. Two models are available—the Invitrogen™ iBright™ CL1500 Imaging System and the Invitrogen™ iBright™ FL1500 Imaging System. Both systems can image chemiluminescent and colorimetric western blots, fluorescent nucleic acid gels, fluorescent and colorimetric protein gels, and more. The iBright FL1500 Imaging System also supports fluorescent western blot imaging, with the ability to capture up to four fluorescence channels in a single blot.

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Modernize your western blot workflow today with the iWestern workflow bundle

Our standard bundle contains all of our core innovative iWestern workflow devices, including the necessary consumables and reagents to get started:

- Bolt Welcome Pack (including Mini Gel Tank)
- iBlot 2 Starter Kit
- iBind Western Starter Kit
- iBright FL1500 Imaging System

Get a quote, customize a bundle to your needs, and learn more at **thermofisher.com/iwestern**

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