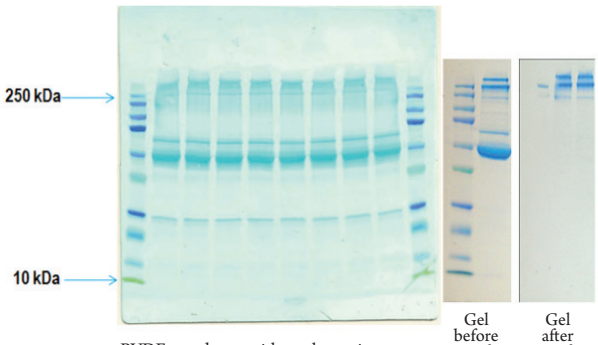
Lightning Blot System

Move your research ahead faster with the Lightning Blot System. It transfers proteins from SDS-PAGE gels to membranes in 6-12 minutes, delivering quantitative results and improved reproducibility.

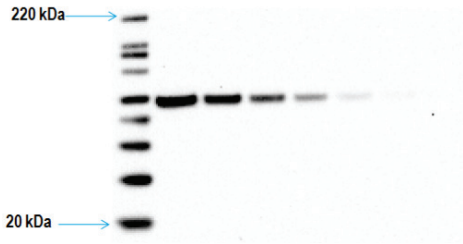
- **FAST**: 2-minute setup, complete electroblotting in <12 minutes
- **QUANTITATIVE TRANSFER** for proteins up to 150 kDa, good results to 250 kDa and higher
- **MORE REPRODUCIBLE** than standard tank transfers
- **GREEN**: Less packaging waste, no transfer buffer disposal
- **ON BUDGET**: Cost / blot similar to standard tank transfer

Quantitative Transfer of High and Low Molecular Weight Proteins



PVDF membrane with total protein stain after Lightning Blot transfer. Whole plasma on a 12% SDS-PAGE gel.

Chemiluminescence Detection of AKT in Cell Lysate after Lightning Blot Transfer



Lane 1: Protein Ladder

Lane 2-9: 2-fold dilution series of lysate prepared from HEK 293 cells using the AlphaScreen SureFire lysis buffer

Transfer performed using Lightning Blot semi-dry transfer system. Blocked for 1 hour with PerkinElmer blocking solution. Incubated with anti-AKT antibody at 1:1,000 dilution and anti-rabbit-HRP at 1:50,000 dilution. Chemiluminescence signal generated with **Western Lightning ECL Pro.**

PerkinElmer®
For the Better

	Lightning Blot System	Semi-dry Transfer	Tank Transfer
Buffer Preparation	0 minutes	15 minutes	15 minutes
Equilibration of Gel in Transfer Buffer	0 minutes	20 minutes	0 minutes
Transfer Sandwich Assembly	2 minutes	10 minutes	10 minutes
Transfer	6-12 minutes	30-90 minutes	1-3 hours
Cleanup	0 minutes	10 minutes	10 minutes
Total Transfer Time	**8-14 minutes**	**1.5-2.5 hours**	**1.5-3.5 hours**
Results	• **No buffer required** • Good transfers for proteins from 10 to 250 kDa • Quantitative transfer for proteins up to at least 150 kDa • Minimal "blow through" of low molecular weight proteins	• Uses up to 250 mL of buffer • Often does not work well for high molecular weight proteins • Potential for short-circuit and failed transfer if membrane and filter paper do not match gel size	• 1L of 20% methanol buffer for disposal after each run • Increasing temperature during a long run with high current may affect transfer efficiency and reproducibility

Ordering Information

Visit www.perkinelmer.com/lightningblot to order online.

Description	Dimensions	Catalog number
Lightning Blotter Mini Transfer System (for 1 miniblot)	10 cm x 10 cm	**NEF2000001EA**
Lightning Blotter Midi Transfer System (for 1 midiblot or 2 miniblots)	10 cm x 18 cm	**NEF201001EA**
Lightning Blot Mini Transfer Stack 2pk	8 cm x 8 cm	**NEF211001EA**
Lightning Blot Mini Transfer Stack 10pk	8 cm x 8 cm	**NEF212001EA**
Lightning Blot Mini Transfer Stack 50pk	8 cm x 8 cm	**NEF213001EA**
Lightning Blot Midi Transfer Stack 2pk	8.5 cm x 13.5 cm	**NEF221001EA**
Lightning Blot Midi Transfer Stack 10pk	8.5 cm x 13.5 cm	**NEF222001EA**
Lightning Blot Midi Transfer Stack 50pk	8.5 cm x 13.5 cm	**NEF223001EA**

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