FLASHBlot™-SD Transfer Buffer

Rapid high efficiency semi-dry transfer buffer

FLASHBlot™-SD Transfer Buffer is designed for rapid semi-dry transfer of proteins from polyacrylamide gels (SDS-PAGE) to nitrocellulose or PVDF membranes using rapid semi-dry transfer systems. Transfer is compatible with commonly used detection methods such as membrane staining, chemiluminescent and fluorescent Western blotting.

Advansta's **Semi-Dry Blotting Papers** are specifically engineered for optimal performance in semi-dry transfer systems. Unlike conventional blotting materials, our advanced formulation minimizes heat generation during the transfer process, significantly reducing background signal caused by heat-damaged membranes and unwanted auto-fluorescence.

Advantages

- **FAST** – high ionic strength formulation allows for protein transfer in 3 to 10-minutes when used with a compatible high current semi-dry blotting system
- **COMPATIBLE** – use your existing high current semi-dry transfer apparatus
- **REPRODUCIBLE** – consistent transfer across entire blot
- **VERSATILE** – use nitrocellulose or PVDF membranes to achieve transfers with low background and high sensitivity with both chemiluminescent and fluorescent Western blots

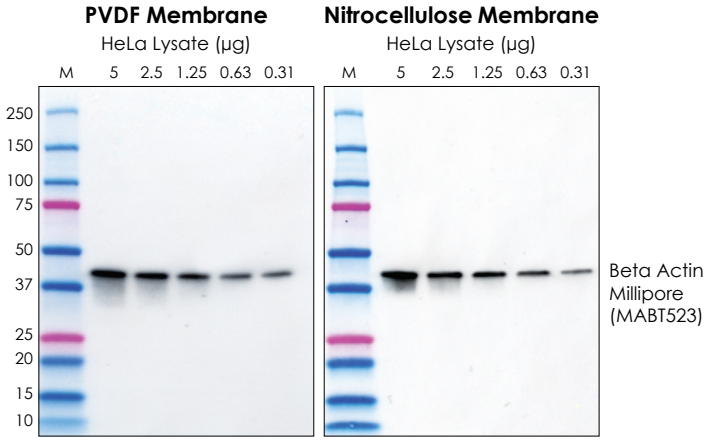

Figure 1. FLASHBlot™-SD is a versatile buffer, compatible with PVDF and Nitrocellulose membranes. Chemiluminescent Western blot analysis of beta actin was performed on blots containing serially diluted HeLa lysate that was electrophoresed by SDS-PAGE then transferred to PVDF or Nitrocellulose membranes. Proteins were transferred from gel to membrane for 7 minutes at a constant current of 1.3 Amps.

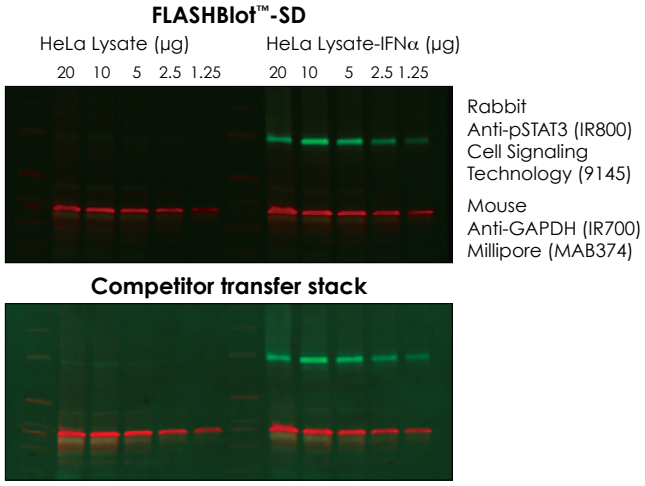

Figure 2. FLASHBlot™-SD produces fluorescent Western blots with low background and high sensitivity. IR fluorescent Western blot analysis of phosphorylated STAT3 and GAPDH was performed on blots containing serially diluted HeLa lysate (±IFNα treatment) that was electrophoresed by SDS-PAGE then transferred to PVDF membranes. Proteins were transferred from gel to membrane for 7 minutes at a constant current of 1.3 Amps.

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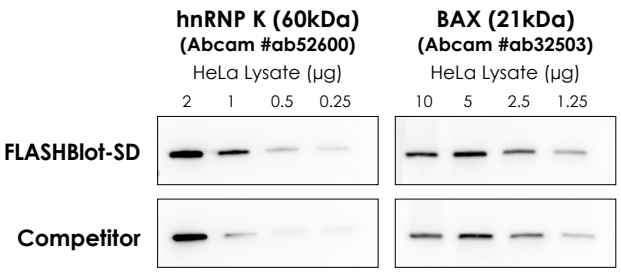

Figure 3. FLASHblot™-SD produces chemiluminescent Western blots with highest sensitivity. Chemiluminescent Western blot analysis of hnRNP K and BAX was performed on blots containing serially diluted HeLa lysate that was electrophoresed by SDS-PAGE then transferred to nitrocellulose membranes. Proteins were transferred from gel to membrane for 7 minutes at a constant current of 1.3 Amps.

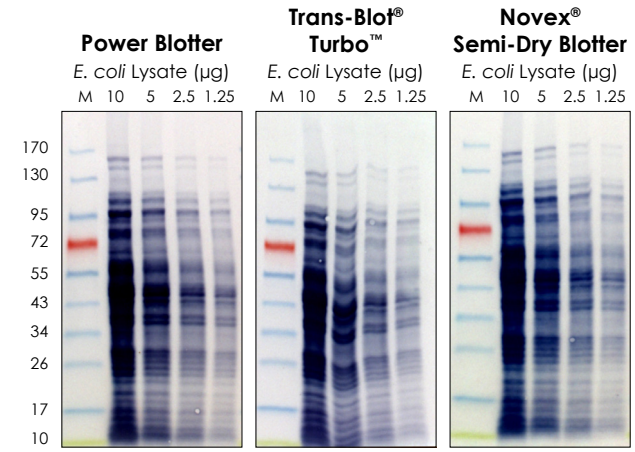

Figure 4. FLASHBlot™-SD is compatible with various semi-dry blotters. AdvanStain™ Iris membrane staining was performed on blots containing serially diluted *E.coli* lysate that was electrophoresed by SDS-PAGE then transferred to nitrocellulose membranes. Proteins were transferred from gel to membrane for 7 minutes at a constant current of 1.3 Amps with the Power Blotter and the Trans-Blot® Turbo™. Proteins were transferred from gel to membrane for 30 minutes at a constant current of 1.3 Amps with the Novex® semi-dry blotter.

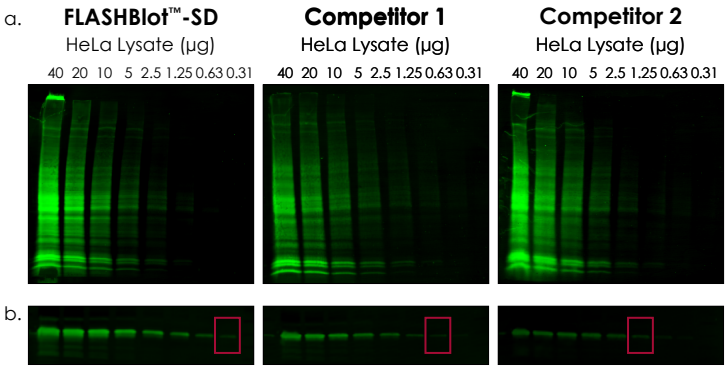

Figure 5. FLASHBlot™-SD outperforms competitive semi-dry transfer buffers. (a) AdvanStain™ Total-PVDF fluorescent protein membrane staining was performed on blots containing serially diluted HeLa lysate that was electrophoresed by SDS-PAGE then transferred to PVDF membranes. Proteins were transferred from gel to membrane for 7 minutes at a constant current of 1.3 Amps. **(b)** After membrane staining was complete, an IR800 fluorescent Western blot analysis of GAPDH was performed. FLASHBlot-SD produced 4–8 fold higher Western blot sensitivity in comparison to other commercially available transfer buffers.

Ordering Information

Catalog Number	Product	Size
R-03104-D50	FLASHBlot™-SD Transfer Buffer	500 ml
L-07125-120	Semi-Dry Blotting Paper (7 X 9cm), 10 Stacks	120 sheets
L-07126-120	Semi-Dry Blotting Paper (10 X 15cm), 10 Stacks	120 sheets

Advansta Corporation
2140 Bering Drive | San Jose, CA 95131
Tel: 650.325.1980 | Fax: 650.325.1904 | Email: sales@advansta.com
Product information: products.advansta.com/FLASHBlot-SD-semi-dry-transfer-buffer

www.advansta.com