

Technical Brief

BCIP/NBT: Scripps vs. Competitor Substrates

Swift, accurate detection of all protein bands upon western blotting is essential to obtaining reliable results. Failure to do so could yield erroneous experimental data and lead to hours of wasted research.

In a side-by-side comparison, the Scripps BCIP/NBT One-Component Substrate was faster and identified more bands than similar BCIP/NBT products from three leading biochemical suppliers.

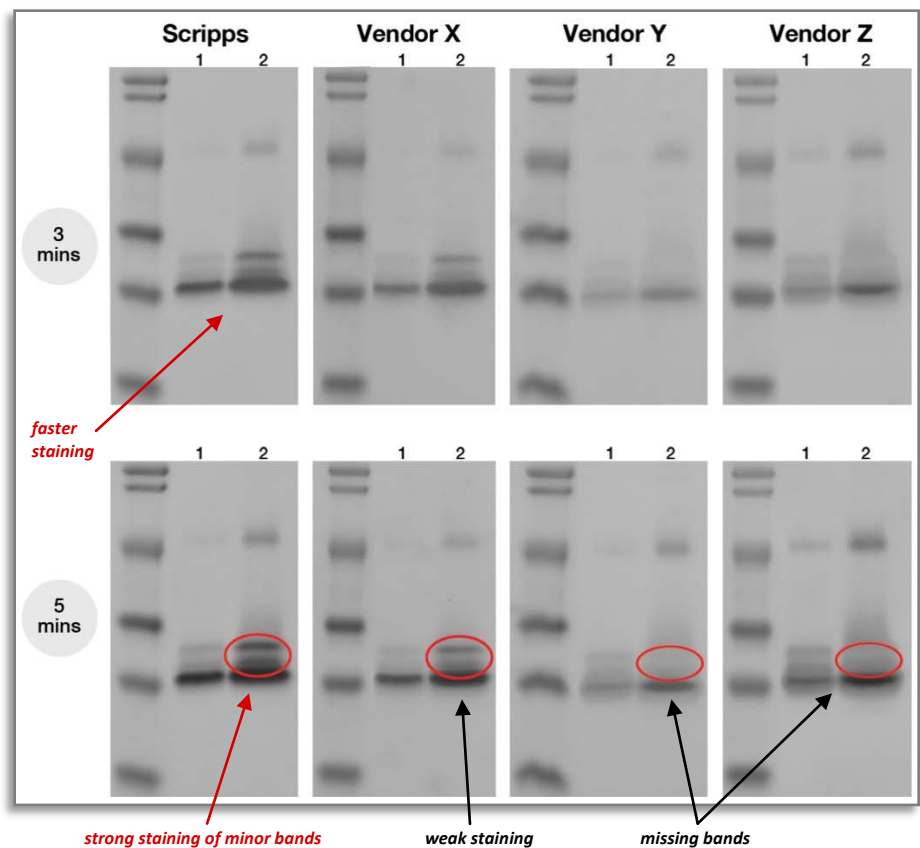
A western blot was run on Prostate Specific Antigen (PSA; catalog number P0725) under non-reducing and heated conditions. After transfer and blocking, the blot was incubated first with anti-PSA monoclonal antibody, clone BP005S (catalog number MP077) and then with goat anti-mouse IgG:alkaline phosphatase conjugate. Load sizes for each blot were 0.2 ug (lane 1) and 1.5 ug in (lane 2). The blots were incubated with either Scripps BCIP/NBT One-Component Substrate (catalog number B0522) or a similar substrate from one of three leading biochemical suppliers. Photos of each blot were taken at 3 minutes and at 5 minutes.

As can be seen in the images at right, banding visualized using the Scripps substrate at 3 minutes is as clear and well developed as that from the other three substrates at 5 minutes.

In addition, the Scripps substrate identified PSA bands not visible in the other blots. Looking closely, higher molecular weight PSA variants are clearly visible in the Scripps blot, but are either non-existent or very faint in the others.

Scripps BCIP/NBT is fast, reliable, and affordable.

Western Blot of PSA: Scripps BCIP/NBT vs. 3 Leading Suppliers



Western blot results demonstrate that alkaline phosphatase substrate BCIP/NBT from Scripps Laboratories works faster and identifies more bands than substrate from 3 leading biochemical suppliers.

Ordering Information

Product Description

*BCIP/NBT One-Component Alk Phos Substrate

Cat. No.

B0522

Pack Sizes**

100 ml, 1000 ml

*5-Bromo-4-Chloro-3-Indoly-Phosphate-ptoluidine/NitroBlue Tetrazolium (BCIP/NBT) is a chromogenic substrate for use with alkaline phosphatase.

**Custom pack sizes available upon request.

Contact us today for samples and pricing.