## Traditional vs. Stain-Free Western Blotting

## **Traditional Western Blotting Bio-Rad Stain-Free Western Blotting** Workflow Time Data Workflow Time Data Sample Preparation Sample Preparation Varies Varies Electrophoresis **Electrophoresis (and Imaging)** TGX Stain-Free Gel, Pre-transfer gel Stain-~1 hr Criterion Cell. Free image to check ChemiDoc™ Go or sample integrity and gel run ChemiDoc MP separation quality 20-30 min (additional Imaging System >1 hr gel prep) Transfer (and Imaging) Transfer Trans-Blot™ Turbo Post-transfer gel Stain-Transfer System, Free image to measure ChemiDoc Go or transfer efficiency ChemiDoc MP 3-10 min 1-3 hr Imaging System EveryBlot Blocking Buffer, Stain-Free blot image Clarity™ and Clarity Max as a loading control Western ECL Substrates, and StarBright™ Blue ~5 hr ~4 hr Fluorescent Secondary Antibodies Target proteins ChemiDoc Go or Target proteins Target proteins ChemiDoc MP (chemiluminescence) (fluorescence) Imaging System (No need to strip >30 min 10-15 min or and reprobe) Image Analysis (and Strip and Reprobe) **Image Analysis** (Reprobing is often needed Loading control ChemiDoc Go or Total protein normalization ~5 hr ChemiDoc MP (TPN) signal is a good for actin or tubulin as Varies a loading control) Imaging System loading control no stripping and Total time: Total time: reprobing needed 16 hr 5 hr

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