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IHC Reference Standards

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Horizon Diagnostics
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Automated Western Blot Processing

Based on proprietary sequential lateral flow (SLF), the new iBind Flex Western System is designed to enable a more versatile walk-away solution for the immunodetection step in a Western blotting workflow. Researchers now have the ability to adapt the iBind Flex Western Device to a variety of blot formats and sample throughput. Compatible with downstream chemiluminescent, colorimetric, or fluorescent detection protocols and optimized for higher sensitivity and reproducibility, there is potential for a significant reduction in primary antibody required when compared with manual blot processing. Experimental results can be achieved without the need for power, pumps, or vacuums through the use of SLF technology, which is designed to automate the blocking, primary and secondary antibody binding, and washing steps for immunodetection of proteins transferred to a nitrocellulose or PVDF membrane. The sequential and uniform flow of solutions across a glass fiber matrix ensures a consistent antigen-antibody interaction to deliver robust protein detection.

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Protein Interactions Assay

NanoBRET Protein Interaction Assays use a new Bioluminescence Resonance Energy Transfer (BRET) technology that enables scientists to quantitatively measure protein-protein interactions in live cells. With NanoBRET Protein Interaction Assays, researchers can study both induction and inhibition of protein interactions in real time using full-length proteins expressed at physiologically relevant levels. Conventional BRET measures the interaction of proteins using a bioluminescent donor fused to a protein of interest and a fluorescent acceptor fused to its binding partner; the donor does not excite the fluorophore using light, but transfers resonance energy through dipole-dipole coupling. The optimized NanoBRET Protein Interaction Assays use NanoLuc Luciferase as the energy donor and HaloTag protein as the energy acceptor. NanoBRET Technology has improved spectral overlap, increased signal, and provided lowered background. In addition, the brighter light output from NanoLuc enables use of NanoBRET even at low expression levels, while still providing efficient energy transfer.

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Gel Imager

The easy-to-use PXi Access systems offer major advances on film detection and can rapidly generate high-quality images of virtually all types of large blots and gels. The new compact PXi 6 or 9 Access systems are complete with high-performance cameras capable of imaging a wide range of blot and gel types and sizes. The camera in each PXi Access features superb optics, which means scientists can set up quickly and detect even the faintest amounts of DNA or protein with a much greater sensitivity than film. PXi Access is so flexible that the systems can image stain-free gels and blots or those stained with any commercial chemiluminescence, fluorescence, visible, and IR dyes. For imaging chemi blots, the PXi Access uses a wide dynamic range to optimize exposure for each protein, accurately quantifying abundant and poorly expressed proteins, making this a much simpler method than using film for producing Western blot results.

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Will you be meeting a Nobel Prize winner this December?
(If you have a recent PhD you could be.)

Stockholm in the second week of December is a special place. The city is alive with excitement as it welcomes and celebrates the new Nobel Laureates at the annual Nobel Prize ceremony.

If you are a PhD student, you could be here too – meeting a Nobel Laureate and receiving a rather special prize yourself.

The journal Science & SciLifeLab have established The Science & SciLifeLab Prize for Young Scientists, to recognize and reward excellence in PhD research and support young scientists at the start of their careers. It’s about bright minds, bright ideas and bright futures.

Four winners will be selected for this international award. They will have their essays published in the journal Science and share a new total of 60,000 USD in prize money. The winners will be awarded in Stockholm, in December, and take part in a unique week of events including meeting leading scientists in their fields.

“The last couple of days have been exhilarating. It has been an experience of a lifetime. Stockholm is a wonderful city and the Award winning ceremony exceeds my wildest dreams.”
–Dr. Dan Dominissini, 2014 Prize Winner

Who knows, The Science & SciLifeLab Prize for Young Scientists could be a major stepping stone in your career and hopefully one day, during Nobel week, you could be visiting Stockholm in December once again.

The 2015 Prize is now open. The deadline for submissions is August 1, 2015.
Enter today: www.sciencemag.org/scilifelabprize

The 2015 Prize categories are:
• Cell and Molecular Biology
• Ecology and Environment
• Genomics and Proteomics
• Translational Medicine

This prize is made possible with the kind support of the Knut and Alice Wallenberg Foundation. This Foundation grants funding in two main areas; research projects of high scientific potential and individual support of excellent scientists.
Finding cures starts with research tools that actually work...

- Proteomic products and services
- Focused product portfolio
- Products tested for specificity and sensitivity
- Antibodies rigorously tested across a wide range of research applications
- Custom formulations
- cGMP compliant ASRs*
- Bulk orders and lot reservations

* Custom formulations of certain monoclonal antibodies can be produced by CST in compliance with FDA regulations governing ASRs. Such products would be classified as Analyte Specific Reagents. Analytical and performance characteristics are not established. All other products are for Research Use Only. Not For Use In Diagnostic Procedures.

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