

Resource Summary Report

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Pan/Phospho Analysis For Western Blot Normalization

DOI:10.17504/protocols.io.g8dbzs6

Type: Protocol

Proper Citation

LI-COR Biosciences 2017. Pan/Phospho Analysis For Western Blot Normalization. protocols.io dx.doi.org/10.17504/protocols.io.g8dbzs6

Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.g8dbzs6>

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Group: LI-COR Biosciences

Summary: QWB is often used for relative analysis of protein phosphorylation and other post- translational modifications (PTMs). This method combines two primary antibodies raised in different hosts: a phospho-specific or other PTM-specific antibody, and a pan-specific antibody that recognizes the target protein regardless of its modification state. Fluorescently-labeled secondary antibodies are used to simultaneously detect and discriminate the two signals. Phospho-specific signals are then normalized against the total level of the target protein, using that protein as its own internal loading control for maximum accuracy. This multiplex fluorescent method is used to analyze changes in target protein phosphorylation, glycosylation, acetylation, ubiquitination, and other PTMs. Note: This protocol is intended for use with near-infrared fluorescent Western blots.

External URL: <https://www.licor.com/documents/5f2sg62r1mhpf72x50nk5rezz7clhink>

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