

Video Article

# Immunoblot Analysis

Sean Gallagher<sup>1</sup>, Deb Chakavarti<sup>2</sup>

<sup>1</sup>UVP, LLC

<sup>2</sup>Proteomic Center, Keck Graduate Institute of Applied Life Sciences

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## Abstract

Immunoblotting (western blotting) is a rapid and sensitive assay for the detection and characterization of proteins that works by exploiting the specificity inherent in antigen-antibody recognition. It involves the solubilization and electrophoretic separation of proteins, glycoproteins, or lipopolysaccharides by gel electrophoresis, followed by quantitative transfer and irreversible binding to nitrocellulose, PVDF, or nylon. The immunoblotting technique has been useful in identifying specific antigens recognized by polyclonal or monoclonal antibodies and is highly sensitive (1 ng of antigen can be detected). This unit provides protocols for protein separation, blotting proteins onto membranes, immunoprobng, and visualization using chromogenic or chemiluminescent substrates.

## Video Link

The video component of this article can be found at <https://www.jove.com/video/759/>

## Protocol

The complete text protocol for this experimental approach is available in [Current Protocols in Molecular Biology](#)

## Disclosures

The authors have nothing to disclose.