WEStern Blotting

A highly reproducible, sensitive and higher throughput alternative to standard Western blotting analysis

aurelia bioscience
bioassays + screening

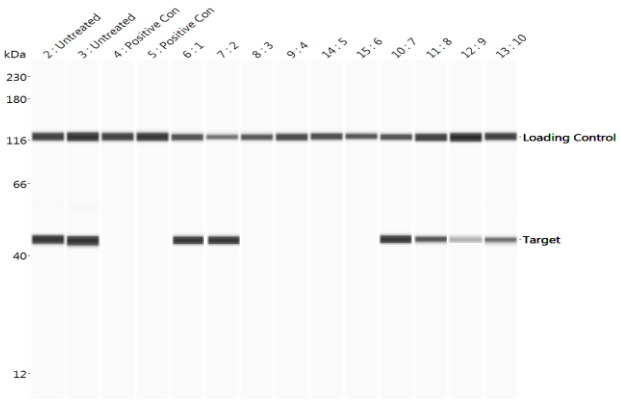
How it works:

- Employs capillary electrophoresis combined with chemi-luminescence based antibody detection to run the entire Western immunoassay process from start to finish
- Runs 24 samples in each run plus a size ladder in just three hours
- Minimal sample volume of 3 to 5ul of 0.2ug/ul or above
- Covers protein size ranges of 12-230kDa and 66-440kDa

Applications:

- PROteolysis of TArget Chimera (PROTAC)
- Follows phosphorylation of proteins in cells (antibody dependent)

1 a.



1 b.

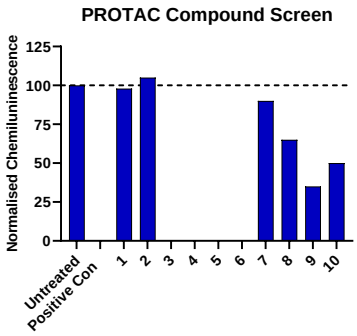


Fig 1a, & b: Screen of 10 PROTAC compounds. Negative control (untreated cells) and positive control were run in duplicate. Positive control is a known active PROTAC molecule. Loading control is Vinculin

2 b.

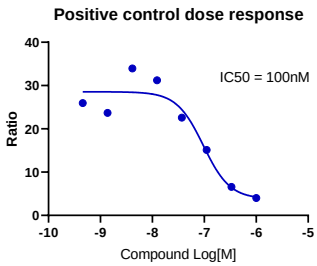
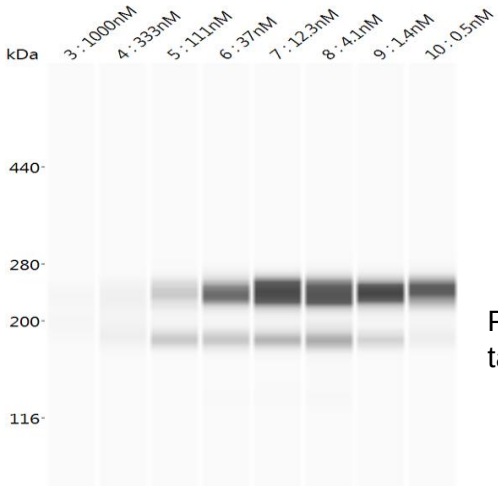


Fig 2a. & b. Cells were treated with doses of a compound, protein was isolated and the kinase of interest immuno-precipitated on beads using a primary antibody to the kinase, then dissociated and run on WES using a phopsho-specific antibody to measure protein phosphorylation by quantitation and expressed as a ratio of phospho- to total kinase

2 a.



Phospho target

- Dramatic improvement in sensitivity, reproducibility, quantitative accuracy and time to result compared to all other legacy Western blotting methods

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