



## A novel horizontal platform for protein detection

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**Experience:** :

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**Market Needs:** The market value of the Western blotting method in 2023 is as high as US\$667.3 million, which shows the vast market. According to market research, the cost of consumables has the highest share in the Western blotting method, and academic and research institutions are the largest group of end users. The successful commercialization of this new technology will benefit a lot of research funds and save a lot of social costs. And because of the enormous number of potential customers, the overall benefits after commercialization cannot be underestimated.

**Our Technology:** This technology is the first to establish an all-in-one integrated horizontal platform that integrates the steps required for Western blotting, such as gel making, protein separation, and transfer staining, and successfully performs Western blotting. Compared with the traditional Western blotting method, the complexity of multiple machines required to complete all procedures can be significantly reduced, thereby improving the stability of the results of the Western blotting method. The design of this platform also dramatically reduces the operation time and the amounts of reagents required, significantly improving the efficiency of Western blotting.

**Strength:** The market does not have the same integrated platform, so it still has exclusive and forward-looking advantages. In addition, because this research team has professional capabilities and knowledge in both the biomedical and engineering fields, the system is highly complete.

### Competing Products:

Thermo Fisher Scientific Inc./ iBlot 3 Western Blot Transfer System

Bio-Rad Laboratories, Inc./ Trans-Blot Turbo system

### Intellectual Properties:

(1) There is no relevant patent for this technology.

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