

Inhibitor Screening Kits

Immune checkpoint pathway is a focal point of today's cancer research. PD-1 is one of the best characterized checkpoint proteins. The binding of PD-1-PD-L1 can suppresses T-cell activation and allows cancer cells to escape from body's immune surveillance. Therefore, neutralizing PD-1 pathway activity has been considered a promising strategy by many oncologists.

Not only in the immune checkpoint proteins, but also the protein such as PCSK9, which binds to the epidermal growth factor-like repeat A (EGF-A) domain of the low-density lipoprotein receptor (LDLR), and inducing LDLR degradation. Inhibition of PCSK9 protein function is currently being explored as a means of lowering cholesterol levels.

Antibody drugs can produce therapeutic effects by blocking or neutralizing the interaction between proteins. In response to this market demand, ACROBiosystems has developed high-throughput inhibitor screening ELISA kits that can screen neutralizing antibodies.

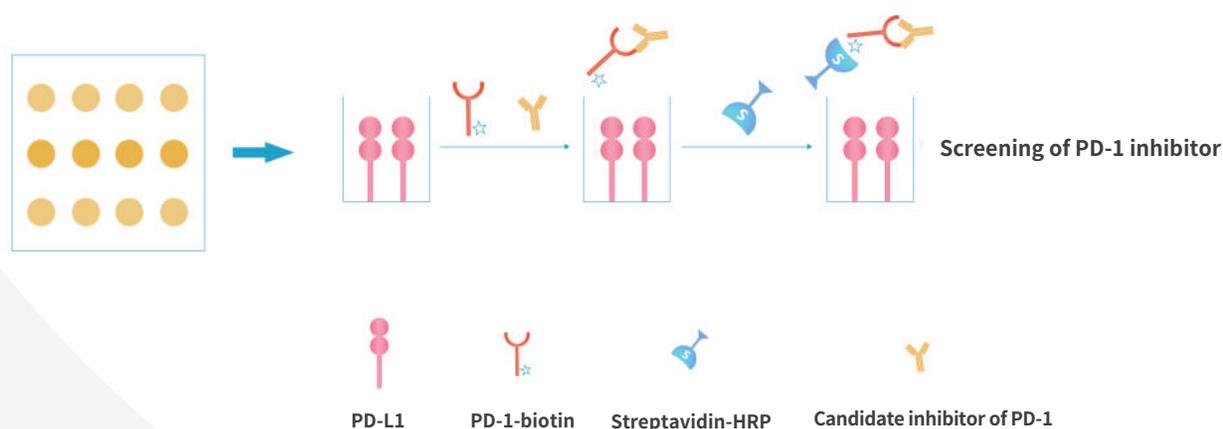


Fig. 1. The schematic diagram of inhibitor screening kits.

The assay employs a simple colorimetric ELISA platform which is based on the competitive binding technique. (The principles between different inhibitor screening kits have slightly different)

Cat. No.	Product Description	Size
EP-101	PD-1[Biotin]: PD-L1 Inhibitor Screening Pair ELISA Assay Pair	96 tests/480 tests
EP-102	CD47: SIRP alpha [Biotinylated] Inhibitor Screening ELISA Assay Pair	96 tests/480 tests
EP-103	PCSK9 [Biotinylated]: LDL R Inhibitor Screening ELISA Assay Pair	96 tests/480 tests

EP-101 Typical Data

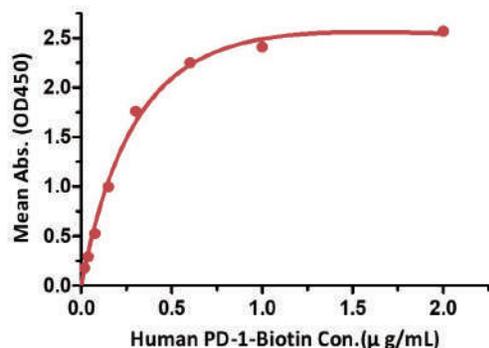


Fig. 2. Binding of Biotinylated Human PD-1 to Immobilized Human PD-L1 in a Functional ELISA Assay.

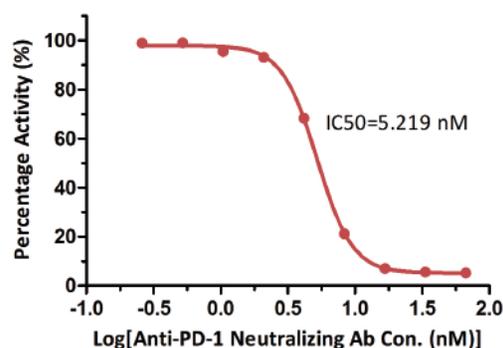


Fig. 3. Inhibition of PD-1-PD-L1 binding by Anti-PD-1 Neutralizing Antibody measured using the PD-1 [Biotinylated]: PD-L1 Inhibitor Screening ELISA Assay Pair (Cat. No. EP-101).

Product Features

■ Fast and Easy-to-Use

By employing the biotin pre-labeled proteins, we eliminate the often time-consuming labeling process, and greatly simplify the experimental procedures.

■ Authentic Human Protein Interaction

Proteins in the three inhibitor screening kits are expressed in the HEK293 cells. The use of human cells as expression host confers authentic post-translational modifications essential for their binding activities.

■ Neutralizing Antibody Included

Each inhibitor screening kit includes the neutralizing mAb as a standard positive control. This would allow the users to validate their experiments.

■ High Throughput and Multiple Sizes Available

We offer both 96 tests and 480 tests as standard package sizes, which enables simultaneous analyses of a large amount of inhibitors.

■ High Detection Sensitivity and Reproducibility

Our biotin labeling platform produces biotinylated proteins with high detection sensitivity and minimal lot-to-lot variation. These features ensure that the assay kit has desired detection sensitivity and the results are reproducible.