CREATIVE BIOMART®
Assay Kit

PD-L1:B7-1[Biotinylated] Inhibitor Screening Assay Kit

Product Information

Cat.No. Kit-1850

Product Overview

There have been a number of studies defining a role for PD-L1 in the regulation of immune tolerance and cancer immunity through binding to T cell-expressed PD-1. Interestingly, PD-L1 has also been shown to interact with B7-1, also known as CD80. Like PD- 1:PD-L1 interaction, B7-1:PD-L1 signaling also leads to inhibition of T cell activation, proliferation, and cytokine production, suggesting that this pathway may also serve as a target in cancer immunotherapy and inflammatory diseases.

Size

96 reactions

Description

The PD-L1:B7-1[Biotinylated] Inhibitor Screening Assay Kit is designed for screening and profiling inhibitors of the PD-L1:B7-1 interaction. The key to this kit is the high sensitivity of detection of biotin-labeled B7-1 by streptavidin-HRP. Only a few simple steps on a microtiter plate are required for the assay. First, PD-L1 is coated on a 96-well plate. Next, B7-1-biotin is incubated with PD-L1 on the plate. Finally, the plate is treated with streptavidin-HRP followed by addition of an HRP substrate to produce chemiluminescence, which can then be measured using a chemiluminescence reader.

Applications

This kit is useful for screening for inhibitors of PD-L1 binding to B7-1.

Storage

Stable for one year from date of receipt, when stored as directed. Kit components require different storage conditions. Be sure to store each component at the proper temperature upon arrival.

Kit Components

PD-L1, Fc fusion: 25 µg; -80°C B7-1 (CD80), Fc fusion, Biotin-labeled: 15 µg; -80°C Streptavidin-HRP: 15 µl; +4°C 3x PD-L1 assay buffer: 50 ml; -20°C Blocking buffer: 50 ml; +4°C HRP chemiluminescent substrate A (translucent bottle): 6 ml; +4°C HRP chemiluminescent substrate B (brown bottle): 6 ml;

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+4°C White 96-well microplate: 1; +4°C

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