CREATIVE BIOMART®
Assay Kit

CTLA4[Biotinylated]:B7-2 Inhibitor Screening Assay Kit

Product Information

Cat.No. Kit-1713

Product Overview

B7-2 (CD86) signaling through CTLA4(CD152) has been shown to inhibit T cell activation. This co-inhibitory pathway can be overactive in many tumors, enabling cancers to escape the host"s immune system. CTLA4-blocking antibodies, including Ipilimumab (Yervoy) and Tremelimumab, have shown clinical efficacy in treating cancer.

Size

96 reactions

Description

The CTLA4[Biotinylated]:B7-2 Inhibitor Screening Assay Kit is designed for screening and profiling inhibitors of CTLA4:B7-2 interaction. The key to this kit is the high sensitivity of detection of biotin-labeled CTLA4 by streptavidin-HRP. Only a few simple steps on a microtiter plate are required for the assay. First, B7-2 is coated on a 96-well plate. Next, CTLA4-biotin is incubated with B7-2 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 CTLA4 binding to B7-2.

Storage

Stable at least 6 months 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

CTLA4 (CD152), Fc fusion, Biotin-labeled: 3 µg; -80°C B7-2 (CD86), Fc fusion: 10 µg; -80°C Streptavidin-HRP: 15 µl; +4°C 3x CTLA4 Assay Buffer: 50 ml; -20°C Blocking Buffer: 50 ml; +4°C HRP chemiluminescent substrate A (transparent bottle): 6 ml; +4°C HRP chemiluminescent substrate B

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(brown bottle): 6 ml; +4°C White 96-well microplate: 1; +4°C

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