CREATIVE BIOMART®
Assay Kit

CD47:SIRP-?[Biotinylated] Inhibitor Screening Assay Kit

Product Information

Cat.No. Kit-1706

Product Overview

Signal-regulatory protein alpha (SIRP-a), also known as CD172a, is a cell surface protein expressed mainly by myeloid cells such as macrophages. Its receptor, CD47, is ubiquitously expressed on the surface of all cells and has been found to be overexpressed in some cancers. CD47 binding to SIRP-a delivers a "Do Not Eat Me" signal to macrophages. In the context of a tumor, this signaling aids in tumor evasion of the immune system. Inhibitors of this interaction hold great promise for cancer immunotherapy.

Size

96 reactions

Description

The CD47:SIRP-a[Biotinylated] Inhibitor Screening Assay Kit is designed for screening and profiling inhibitors of CD47:SIRP-a interaction. The key to this kit is the high sensitivity of detection of biotinlabeled SIRP-a by streptavidin-HRP. Only a few simple steps on a microtiter plate are required for the assay. First, CD47 is coated on a 96-well plate. Next, SIRP-a-biotin is incubated with CD47 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 CD47 binding to SIRP-a.

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

CD47, Fc fusion: 10 µg; -80°C SIRP-a (CD172a), His-tag, Biotin-labeled: 60 µg; -80°C Streptavidin-HRP:

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15 µl; +4°C 3x CD47 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 (brown bottle): 6 ml; +4°C White 96-well microplate14: 1; +4°C

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