

# PathHunter<sup>®</sup> Jurkat SIRPα Signaling Assay

Catalog Number: 93-1135C19 Lot Number: See Vial

Contents: 3 x 10<sup>6</sup> cells per vial in 1 mL

### **Background**

Checkpoint Signaling assays are engineered to co-express a ProLink™ (PK) tagged immune checkpoint receptor and an Enzyme Acceptor (EA) tagged SH2 domain. Ligand engagement leads to receptor activation and phosphorylation, resulting in SH2-EA recruitment to the receptor, and forcing complementation of the two β-galactosidase enzyme fragments (EA and PK). The resulting functional enzyme hydrolyzes substrate to generate a chemiluminescent signal.

#### **Product Information**

Target Receptor: SIRPα

Target Accession #: NM\_001040022.1

**Description:** Signal regulatory protein alpha

Species: Human
SH2 Domain: SHP1

SH2 Accession #: NM\_002831

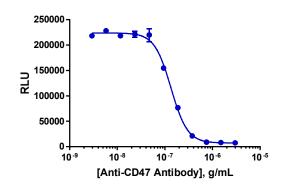
Amino Acid Range: 1 - 219

Cell Type: Jurkat (Suspension)

Storage: Short term (<24 h): Store at -80°C; Long term (>24 h): Store in vapor phase of liquid nitrogen.

## **Functional Performance**

Signaling assay cells were seeded in a 96-well plate and then pre-incubated with a control antibody, followed by co-incubation with the ligand cell line using the assay conditions described below. Following stimulation, signal was detected using the PathHunter Detection Kit according to the recommended protocol. Please refer to page 2 for recommended assay reagents, detection reagents, and control compounds.



Signaling Assay Cell Number/Well: 20,000

<u>Control Antibody:</u> Anti-CD47 Antibody (Ab-2; Clone B6H12.2)

Antibody Pre-Incubation Time (minutes): 60
Antibody Pre-Incubation Temperature (°C): 37
IC50 for Antibody (ng/mL): 135
Signal:Background: 21.2

Control Ligand Cell Line: PathHunter® Jurkat CD47-Presenting Cell Line

Revision Date: 2/12/2024

Ligand Cell Number/Well: 30,000
Receptor:Ligand Cell Ratio: 1:1.5
Ligand Incubation Time (minutes): 300
Ligand Incubation Temperature (°C): 37
Detection Incubation Time (hrs.) 1

Note: For this assay, Jurkat CD47-Presenting ligand cells are plated first and pre-incubated with CD47 antibody prior to co-incubation with Jurkat SIRPα Signaling cells.

## **Datasheet**



## **Passage Stability**

This cell line has been confirmed to be stable through a minimum of 10 passages with no significant drop in assay window or change in  $EC_{50}$ .

## **Mycoplasma Testing**

This lot was tested and found to be free of mycoplasma contamination. Data available upon request.

### **Required Materials**

## The following additional materials are required but not provided:

Product Use*	Product Description	Catalog Number
Detection	PathHunter <sup>®</sup> Bioassay Detection Kit	93-0933
Cell Culture	AssayComplete™ Cell Culture Kit-101	92-3101G
Cell Plating	AssayComplete™ Cell Plating 0 Reagent	93-0563R0A
Cell Detachment	Not Applicable	Not Applicable
Cell Thawing	AssayComplete™ Thawing Reagent T6	92-4106TR
Cell Freezing	AssayComplete™ Freezing Reagent F5	92-5105FR

<sup>\*</sup>Please inquire about our cell line-specific AssayComplete Starter Packs to get you started with your cell culture needs.

### **Required Antibiotics**

Antibiotic Name	Concentration (µg/mL)	Catalog Number
AssayComplete™ Puromycin	Not Applicable	Not Applicable
AssayComplete™ Hygromycin B	250	92-0029
AssayComplete™ G418	500	92-0030

### **Additional Ligand Information**

**To be used with:** PathHunter® Jurkat CD47-Presenting Cell Line (93-1149C19)

Control Antibody: Anti-CD47 Antibody (Ab-2; Clone B6H12.2)

Antibody Vendor: Eurofins DiscoverX® (Part#: 92-1341)

## **Limited Use License Agreement**

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