

PathHunter[®] Jurkat CD28 Signaling Assay

Materials Provided

Catalog Number: 93-1126C19

Lot Number: See Vial

Background

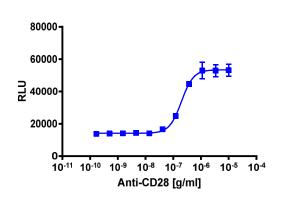
Checkpoint Signaling assays are engineered to co-express a ProLink™ (PK) tagged immune checkpoint receptor and an Enzyme Acceptor (EA) tagged SH2 domain. Ligand engagement leads to receptor activation and phosphorylation, resulting in SH2-EA recruitment to the receptor, and forcing complementation of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

Product Information

Target Receptor:	CD28
Target Accession #:	NM_006139.3
Description:	T-cell-specific surface glycoprotein CD28
Species:	Human
SH2 Domain:	GRB2
SH2 Accession #:	NM_002086.4
Amino Acid Range:	60 - 152
Cell Type:	Jurkat (Suspension)
Contents:	3 x 10 ⁶ cells per vial in 1 mL
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 incubated at 37°C and 5% CO2 for the indicated time specified below. Following agonist incubation, 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 Cell Number/Well:	50000	
Signaling Cell Seeding Time (hours	0	
Control Agonist:	Anti-CD28	Antibody[CD28.2]
Agonist Incubation Time (minutes)	:	120
Agonist Incubation Temperature (°	C):	RT
EC_{50} for compound stimulation (ng/mL):		198.1
Signal:Background at agonist E _{max} :	3.8	

Detection Incubation Time (hrs.)

1



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 [®] 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	ell Thawing AssayComplete™ Thawing Reagent T6 92-4106TR	
Cell Freezing	AssayComplete™ Freezing Reagent F5	92-5105FR

*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

Control Agonist: Anti-CD28 Antibody[CD28.2]

Vendor: Eurofins DiscoverX[®] (Catalog No. 92-1336)

Limited Use License Agreement

These products may be covered by issued US and/or foreign patents, patent application and subject to Limited Use Label License.

Please visit https://www.discoverx.com/legal-policies/ for limited-use label license agreement and trademark information for this product.

© 2024 Eurofins DiscoverX, a Eurofins Discovery Company. All Rights Reserved.