

## PathHunter<sup>®</sup> U2OS NIK Signaling Assay

Catalog Number:	93-1059C3	Lot Number:	See Vial

Contents:

2 vials, 1 x 10<sup>6</sup> cells per vial in 1 mL

#### Background

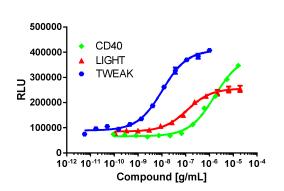
PathHunter Signaling cell lines are engineered to express an Enzyme Donor (ED) tagged target protein. Activation of the pathway results in an increase of intracellular concentration of the ED-tagged protein. Addition of exogenous Enzyme Acceptor (EA), and buffer, lyses the cell and forces complementation of the ED and EA enzyme fragments. This results in the formation of a functional enzyme that hydrolyzes substrate to generate a chemiluminescent signal.

#### **Product Information**

Target Protein:	NIK
Accession #:	NM_003954.3
Description:	Mitogen-activated protein kinase kinase kinase 14
Target ED Tag:	ePL
Target Species:	Human
Cell Type:	U2OS
Storage:	Short term (<24 h): Store at -80°C; Long term (>24 h): Store in vapor phase of liquid nitrogen.

#### **Functional Performance**

Cells were plated in a 384-well plate and incubated at  $37^{\circ}$ C and 5% CO<sub>2</sub> to allow the cells to attach and grow. Cells were then stimulated with a control compound, 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.



Cell Number/Well:	5000
Cell Seeding Time (hours):	24
Control Agonist:	TWEAK
Ligand Incubation Time (minutes):	240
Ligand Incubation Temperature (°C):	37
$EC_{\mathfrak{so}}$ for compound stimulation (ng/mL):	10.6
Signal:Background at agonist E <sub>max</sub> :	4.2

Assay Note: The ligands TWEAK, CD40, and LIGHT will induce an increase of signal.

# DiscoverX

### **Passage Stability**

This cell line has been confirmed to be stable through 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> ProLabel <sup>®</sup> /ProLink™ Detection Kit	93-0812
Cell Culture	AssayComplete™ Cell Culture Kit-103	92-3103G
Cell Plating	AssayComplete™ Cell Plating 0 Reagent	93-0563R0A
Cell Detachment	AssayComplete™ Cell Detachment Reagent	92-0009
Cell Thawing	AssayComplete™ Thawing Reagent T3	92-4103TR
Cell Freezing	AssayComplete™ Freezing Reagent F3	92-5103FR

\*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	Not Applicable	Not Applicable	
AssayComplete™ G418	500	92-0030	

#### **Additional Ligand Information**

Control Agonist: TWEAK Vendor: DiscoverX<sup>®</sup> (Catalog No. 92-1297)

For order placement or technical support, please call 1.866.448.4864 (North America) or +44.121.260.6142 (Europe) or e-mail info@discoverx.com. For additional information, please visit discoverx.com.

2



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