

DiscoverX

See Vial

# PathHunter<sup>®</sup> U2OS RANK/IkB Functional Assay

Catalog Number:	93-0994C3	Lot Number:
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**Contents:** 1 x 10<sup>6</sup> cells per vial in 1 mL

# Background

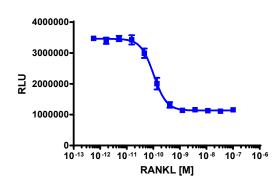
PathHunter Degradation cell lines are engineered to express an Enzyme Donor (ED) tagged target protein. Activation of the pathway results in degradation of the ED-tagged protein. Addition of exogenous Enzyme Acceptor (EA), and buffer, lyses the cell and forces complementation of the ED and EA enzyme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

## **Product Information**

Target Protein:	RANK	Target Protein 2:	ΙκΒ	
Accession #:	NM_003839.3	Accession #:	NM_020529	
Description:	Tumor necrosis factor receptor superfamily, member 11a	Description:	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	
Target ED Tag:	None	Target ED Tag 2:	PL	
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.



5000
48
sRANKL
30
37
0.102
3.0

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 <sup>®</sup> ProLabel <sup>®</sup> /ProLink™ Detection Kit	93-0812
Cell Culture	AssayComplete™ Cell Culture Kit-103	92-3103G
Cell Plating	AssayComplete™ Cell Plating 38 Reagent	93-0563R38A
Cell Detachment	AssayComplete™ Cell Detachment Reagent	92-0009
Cell Thawing	AssayComplete <sup>™</sup> 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	0.25	92-0028
AssayComplete™ Hygromycin B	Not Applicable	Not Applicable
AssayComplete™ G418	500	92-0030

#### **Additional Ligand Information**

Control Agonist: sRANKL

**Vendor:** Eurofins DiscoverX<sup>®</sup> (Catalog No. 92-1282)

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