

# PathHunter® THP-1 IkB Degradation Cell Line

See Vial Catalog Number: 93-0538C14 Lot Number:

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

## **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**

ΙκΒ **Target Protein:** 

Accession #: NM 020529

**Description:** nuclear factor of kappa light

polypeptide gene enhancer in B-cells

inhibitor, alpha

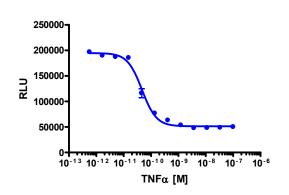
PL**Target ED Tag:** 

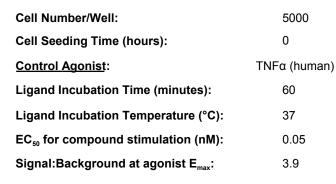
Target Species: Human THP-1 Cell Type:

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°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.





For optimal growth of PathHunter THP-1 lkB cells, we recommend supplementing growth and recovery media with β-mercaptoethanol to a final concentration of 0.05mM.

Important! Cell handling/protocol notes: THP-1 is a suspension cell line. Do not aspirate media prior to propagation or cell culture will be lost. To propagate, transfer a fraction of the cell suspension to a new flask containing fresh growth media. Cell suspension may need to be concentrated (pelleted and re-suspended) prior to loading on assay plate; compounds can be added any time after cell plating, but plates should incubate at 37°C/5% CO<sub>2</sub> until that time.



## **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-101	92-3101G
Cell Plating	AssayComplete™ Cell Plating 25 Reagent	93-0563R25A
Cell Detachment	AssayComplete™ Cell Detachment Reagent	92-0009
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	Not Applicable	Not Applicable
AssayComplete™ G418	300	92-0030

## **Additional Ligand Information**

**Control Agonist:** TNFα (human)

Vendor: DiscoverX® (Catalog No. 92-1097)

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.



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