

# PathHunter® U2OS EphB1 Functional Assay

Catalog Number: 93-0893C3 Lot Number: See Vial

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

#### **Background**

PathHunter Receptor Tyrosine Kinase (RTK) Functional cell lines are engineered to co-express a ProLink™ (PK) tagged RTK, an Enzyme Acceptor (EA) tagged SH2 domain, and, in some cases, an untagged co-receptor. Activation of the RTK-PK induces receptor dimerization, leading to SH2-EA recruitment, 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 RTK: EphB1

RTK Accession #: NM\_004441.3

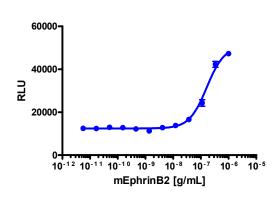
**Description:** Ephrin type-B receptor 1

Kinase Species: Human
SH2 Domain: SHC1
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°C and 5% CO <sub>2</sub> to allow the cells to attach and grow. Cells were then stimulated with a control agonist, 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: 10000

Control Agonist 1: Recombinant Mouse Ephrin-B2Fc Chimera, CF

Cell Incubation Time (hours): 24

Agonist Incubation Time (minutes): 180

Agonist Incubation Temperature (°C): RT

EC<sub>50</sub> for SH2 recruitment (ng/mL): 162.9

Signal:Background at agonist  $E_{max}$ : 3.8



## **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> Detection Kit  | 93-0001        |
| Cell Culture    | AssayComplete™ Cell Culture Kit-103    | 92-3103G       |
| Cell Plating    | AssayComplete™ Cell Plating 16 Reagent | 93-0563R16A    |
| Cell Detachment | AssayComplete™ Cell Detachment Reagent | 92-0009        |
| Cell Thawing    | AssayComplete™ Thawing Reagent T3      | 92-4103TR      |
| Cell Freezing   | AssayComplete™ Freezing Reagent F3     | 92-5103FR      |

<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**

Control Agonist 1: Recombinant Mouse Ephrin-B2Fc Chimera, CF

**Vendor:** Eurofins DiscoverX<sup>®</sup> (Catalog No. 92-1089)

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3