

# PathHunter® eXpress IL21R/IL2RG Dimerization Assay

Catalog Number: 93-1035E3 Lot Number: See Vial

1 x 10<sup>6</sup> cells per vial in 0.1 mL Contents:

## Background

The PathHunter® Dimerization assay detects ligand induced dimerization of two subunits of a receptor-dimer pair. The cells have been engineered to co-express one receptor subunit fused to Enzyme Donor (ED), and a second dimer partner fused to Enzyme Acceptor (EA). Cytoplasmic tail may have been deleted from one or both receptors. Binding of an agonist to one receptor subunit induces it to interact with its dimer partner, forcing complementation of the two enzyme This results in the formation of a functional enzyme that hydrolyzes a substrate to generate a chemiluminescent signal. These cells have been modified to prevent long term propagation and expansion using a proprietary compound that has no apparent effect on assay performance.

### **Product Information**

Target Protein 1: IL21R **Target Protein 2:** IL2RG

Amino Acid Range: 1 - 258 Amino Acid Range: 1 - 290

Accession #: NM 021798.3 Accession #: NM 000206.2

**Description:** interleukin 21 receptor **Description:** Interleukin 2 receptor, gamma

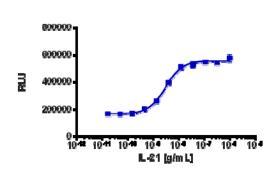
EΑ PK1 Target Tag 1: Target Tag 2:

**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 96-well plate and incubated at 37°C/5% CO<sub>2</sub> for the Cell Seeding Time indicated below. Cells were then stimulated with a control compound using the assay conditions described below. Following stimulation, signal was detected using the PathHunter Detection Reagents provided in the kit according to the recommended protocol. For a detailed protocol, please refer to the user manual.



Cell Number/Well: 10000

**Cell Plating Reagent:** AssayComplete™ Cell Plating 0 Reagent

**Cell Seeding Time (Hours):** 24

**Control Compound:** IL-21 **Compound Incubation Time (minutes):** 360 Compound Incubation Temperature (°C): 37 EC<sub>50</sub> for Compound Stimulation (ng/mL): 3.1 Signal:Background at Compound E<sub>max</sub>: 3.4

## **Additional Protocol Information**

Optimal assay window achieved by plating cells 24 hours prior to treatment with ligand for 6hours.

Generated on: October 02, 2020



# **Additional Ligand Information**

Control Compound: IL-21

Vendor: Eurofins DiscoverX<sup>®</sup> (Catalog No. 92-1287)

## **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 discoverx.com/license for a list of products that are governed by limited use label license terms and relevant patent and trademark information.

Ordering: +1.510.979.1415 option 4 or e-mail CustomerServiceDRX@eurofins.com Technical support: +1.510.979.1415 option 5 or e-mail DRX\_SupportUS@eurofinsUS.com General product information: www.discoverx.com

Generated on: October 02, 2020