

IL2 promoter-Luc/Jurkat

CBP74014

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I. Background

The particles contain a firefly luciferase gene driven by the human IL-2 promoter (Figure 1). After transduction, activation of the IL-2 signaling pathway in the target cells can be monitored by measuring the luciferase activity.

II. Description

The IL-2 Promoter Luciferase Reporter Lentivirus are replication incompetent, HIV-based, VSV-G pseudotyped lentiviral particles that are ready to be transduced into almost all types of mammalian cells, including primary and non-dividing cells.

III. Introduction

Host Cell: Jurkat

Expressed gene: IL-2-Luciferase

Stability: 32 passages (in-house test, that not means the cell line will be instable beyond the passages we tested.)

Synonym(s): IL-2 Promoter reporter, lentivirus reporter, HIV reporter,



VSV-G reporter

Freeze Medium: 90% FBS+10% DMSO

Culture Medium: RPMI-1640+10%FBS+1ug/ml puromycin

Mycoplasma Testing: Negative

Storage: Liquid nitrogen

Application(s): Functional(Report Gene) Assay

IV. Description of Host Cell Line

Organism: Homo sapiens, human

Tissue: Peripheral blood

Disease: Acute T cell leukemia

Morphology: Lymphoblast

Growth Properties: Suspension

V. Representative Data

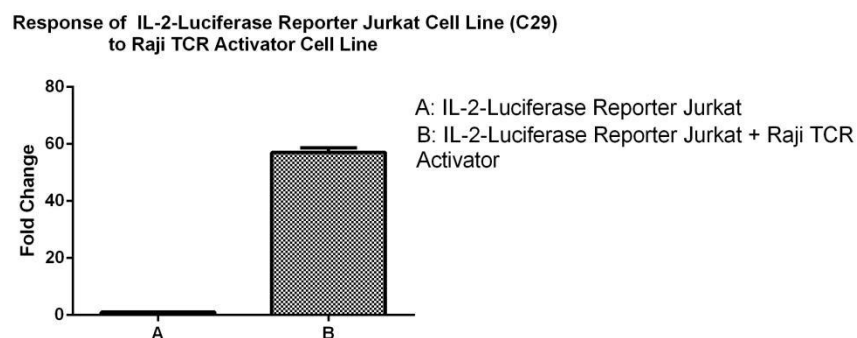
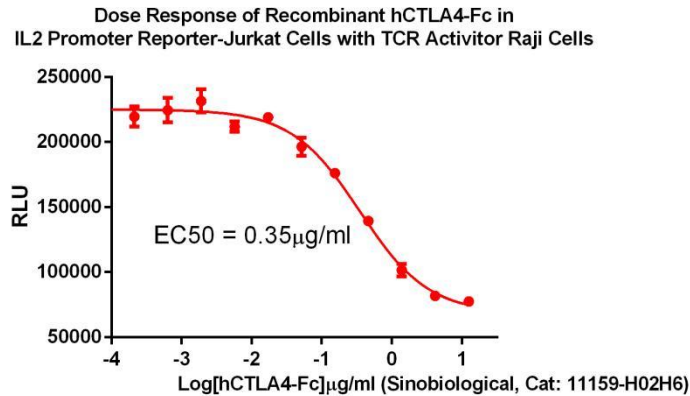


Figure 1. Response of IL -2-Luciferase Reporter Jurkat Cell Line (C29) to



Raji TCR Activator Cell Line.



CD80/CD86&CD28 Blockade Assay
Assay specifics: E:T ratio = 15:1; Raji TCR Activator Cells as Target Cells;

Figure 2. Dose Response of Recombinant hCTLA4-Fc in IL2 Promoter Reporter-Jurkat Cells with TCR Activator Raji Cells.

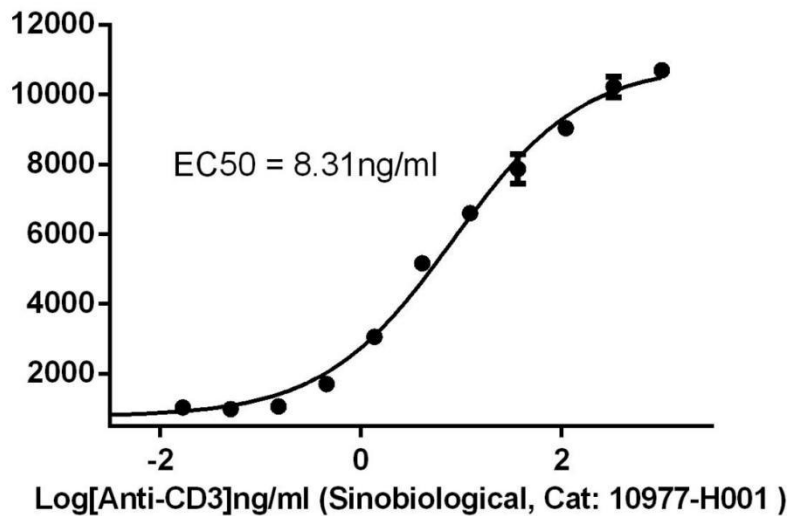


Figure 3. Detect Luciferase assay by Ultra Luciferase Detection Kit CBPH0001 (we strongly suggest to purchase from Cobioer). Jurkat-IL-2 Luciferase Reporter cells were stimulated by anti-CD3, the EC50 was 8.31 ng/ml.

