

GITR/NF κ B-Luc/Jurkat

CBP74012

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I. Background

Glucocorticoid-induced TNFR-related protein (GITR) is a member of the TNFR superfamily, expressed in a number of cells including T cells, natural killer (NK) cells and antigen-presenting cells (APC). GITRL, GITR's natural ligand, is expressed mainly by APCs and GITR:GITRL interaction is important for activation of the immune system. Agonistic antibodies targeting GITR are actively being pursued as potential immuno-oncology therapies.

II. Description

This cell line expresses a surface human GITR (glucocorticoid-induced TNFR family related gene; TNFRSF18; CD357) and an NF- κ B luciferase reporter construct that are stably integrated into the genome of Jurkat T-cells.

III. Introduction

Host Cell: Jurkat

Expressed gene: GITR-NF κ B-Luciferase



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

Freeze Medium: 90% FBS+10% DMSO

Culture Medium: RPMI-1640+10%FBS+400ug/ml hygromycin+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



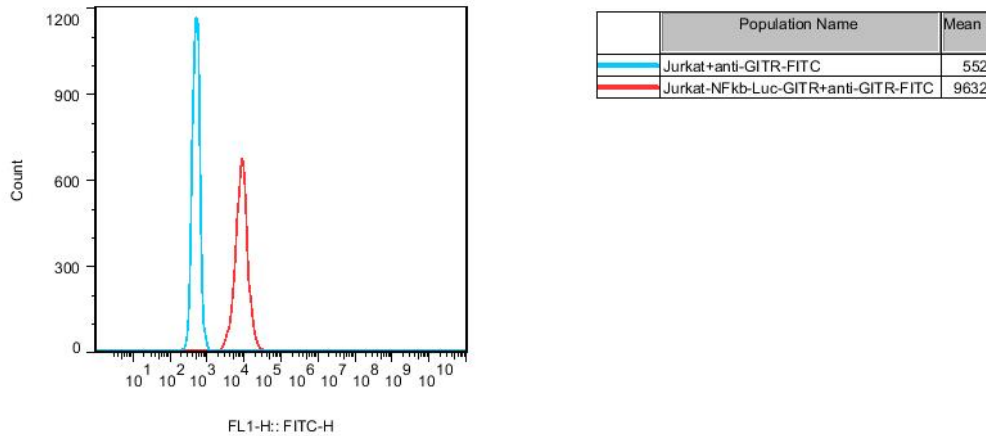


Figure 1. Recombinant Jurkat stably expressing human GITR.

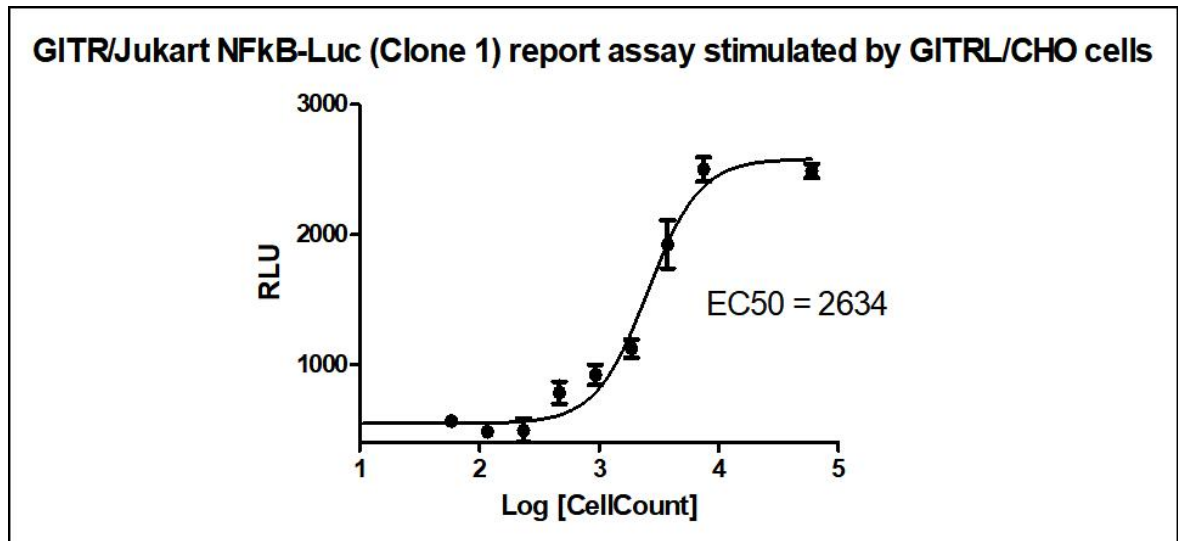


Figure 2. Detect Luciferase assay by Ultra Luciferase Detection Kit CBPH0001 (we strongly suggest to purchase from Cobioer). Jurkat/NF-κB Luciferase-GITR Reporter cells were stimulated by GITRL/CHO cells, the EC50 was 2634cells.



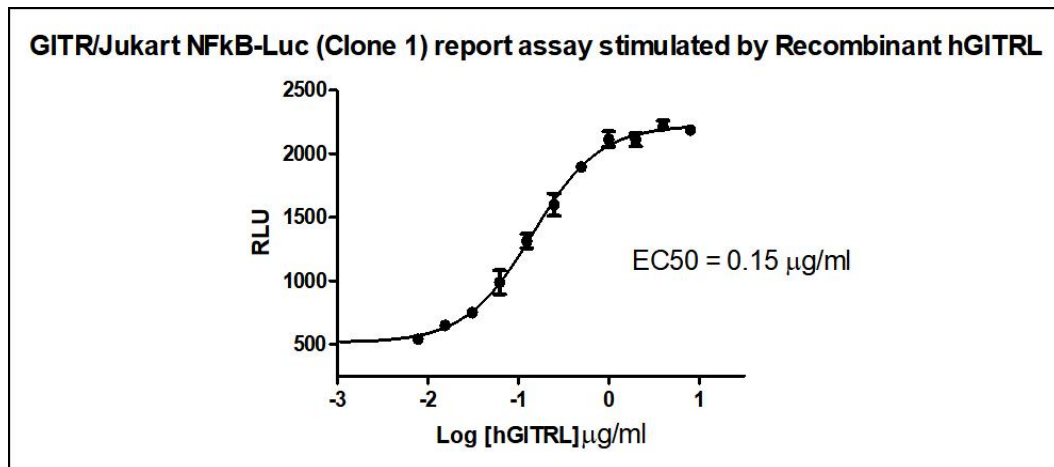


Figure 3. Detect Luciferase assay by Ultra Luciferase Detection Kit CBPH0001 (we strongly suggest to purchase from Cobioer). Jurkat/NF- κ B Luciferase-GITR Reporter cells were stimulated by hGITRL, the EC50 was 0.15 $\mu\text{g/ml}$.

