

NF κ B-Luc/Jurkat

CBP74031

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I. Background

NF- κ B luciferase reporter construct is stably integrated into the genome of Jurkat T- cells. The firefly luciferase gene is controlled by 4 copies of NF- κ B response element located upstream of the TATA promoter. Following activation by stimulants, endogenous NF- κ B transcription factors bind to the DNA response elements to induce transcription of the luciferase gene.

II. Introduction

Host Cell: Jurkat

Expressed gene: NF- κ B Luciferase

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

Synonym(s): Nfkb, nf-kb reporter, nfkb report, nf-kb jurkat

Freeze Medium: 90% FBS+10% DMSO

Culture Medium: RPMI-1640+10%FBS+800ug/ml hygromycin

Mycoplasma Testing: Negative

Storage: Liquid nitrogen



Application(s): Functional(Report Gene) Assay

III. Description of Host Cell Line

Organism: Homo sapiens, human

Tissue: Peripheral blood

Disease: Acute T cell leukemia

Morphology: Lymphoblast

Growth Properties: Suspension

IV. Representative Data

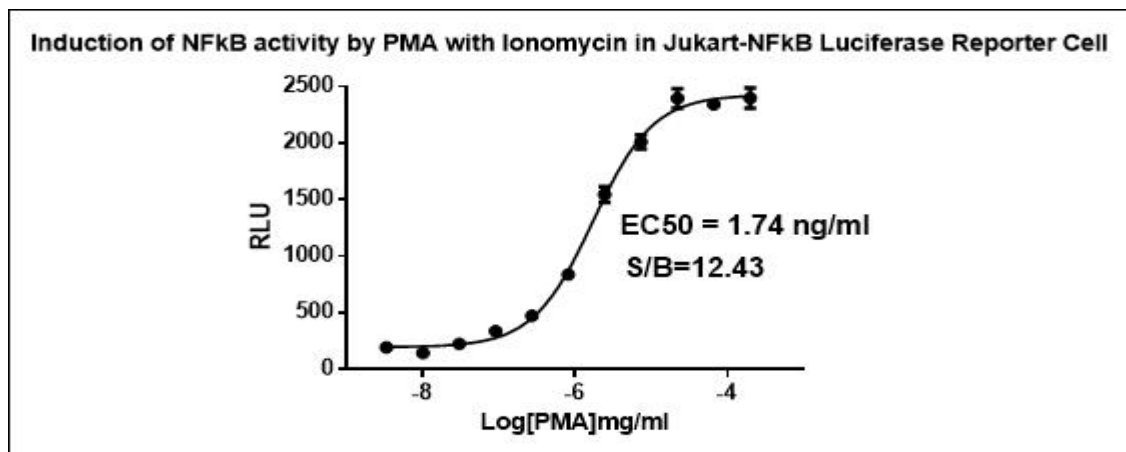


Figure 1. Detect Luciferase assay by Ultra Luciferase Detection Kit CBPH0001 (we strongly suggest to purchase from Cobioer). Induction of NFkB activity by PMA with Ionomycin in Jukart-NFkB Luciferase Reporter Cell.

