

STAT3-Luc/HEK293

CBPB0002

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I. Background

The STAT3 Reporter (Luc)-HEK293 cell line is designed for monitoring STAT3 signal transduction pathway. It contains a firefly luciferase gene driven by STAT3 response elements located upstream of the minimal TATA promoter.

II. Description

After activation by cytokines and growth factors, endogenous STAT3 binds to the DNA response elements, inducing transcription of the luciferase reporter gene.

III. Introduction

Host Cell: HEK293

Expressed gene: STAT3-Luciferase

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

Synonym(s): Acute-Phase Response Factor, DNA-Binding Protein APRF, DNA, ADMIO, Signal Transducer And Activator Of Transcription 3,



TATA

Freeze Medium: 90% FBS+10% DMSO

Culture Medium: DMEM + 10%FBS+100ug/ml hygromycin

Mycoplasma Testing: Negative

Storage: Liquid nitrogen

IV. Description of Host Cell Line

Organism: Homo sapiens, human

Tissue: Embryonic kidney

Disease: Normal

Morphology: Epitheloid cell

Growth Properties: Adherent

V. Representative Data

**Inhibition of IL-6-induced Reporter Activity by IL-6
Neutralizing Antibody in STAT3 (Luc) Reporter HEK293 Cells**

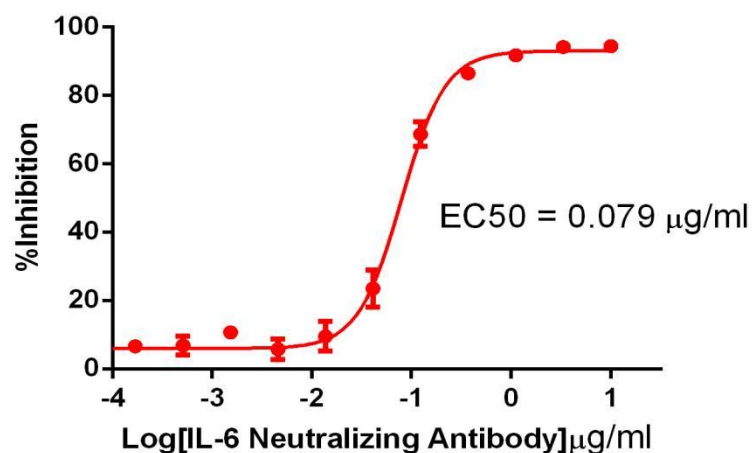


Figure 1. Inhibition of IL-6-induced Reporter Activity by IL-6 Neutralizing Antibody in STAT3 (Luc) Reporter HEK293 Cells.

STAT3 Luciferase Reporter-HEK293 Cells (C7)

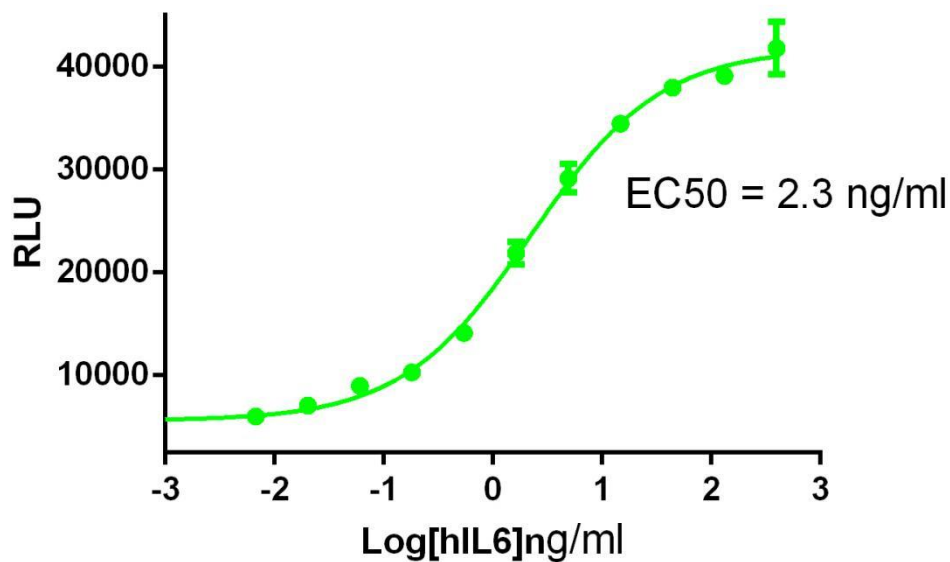


Figure 2. Detect Luciferase assay by Ultra Luciferase Detection Kit CBPH0001 (we strongly suggest to purchase from Cobioer).STAT3 Luciferase Reporter-HEK293 Cells (C7).

