

TLR8/NF κ B-Luc/HEK293

CBP74021

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I. Background

The TLR family plays a fundamental role in pathogen recognition and activation of innate immunity. TLR8 is an endosomal receptor that recognizes single stranded RNA (ssRNA), and can recognize ssRNA viruses such as Influenza, HIV and HCV. TLR8 binding to the viral RNA recruits MyD88 and leads to activation of the transcription factor NF- κ B and an antiviral response. Human TLR8 is functional but murine TLR8 is non-functional because it lacks five amino acids.

II. Description

Recombinant HEK293 cell expressing firefly luciferase gene under the control of NF κ B response elements with constitutive expression of human TLR8 (Toll-like receptor 8, also known as CD288, a member of the toll-like receptor (TLR) family (GenBank Accession No. NM_138636).

III. Introduction

Host Cell: HEK293



Expressed gene: TLR8、NFkB-Luc

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

Synonym(s): CD288, TLR8, Toll-like receptor 8, tlr, tlr-8 TLR, nfkb, nf-kb reporter TLR

Freeze Medium: 90% FBS+10% DMSO

Culture Medium: MEM+10% Foetal Bovine Serum (FBS)+ 1% Non Essential Amino Acids (NEAA) + 1mM Sodium Pyruvate (NaP) +1ug/ml puromycin+100ug/ml hygromycin

Mycoplasma Testing: Negative

Storage: Liquid nitrogen

Application(s): Functional(Report Gene) Assay

IV. Description of Host Cell Line

Organism: Homo sapiens, human

Tissue: Embryonic kidney

Disease: Normal

Morphology: Epitheloid cell

Growth Properties: Adherent



V. Representative Data

TLR8/NF- κ B Reporter - HEK293 Recombinant Cell Line (C1)

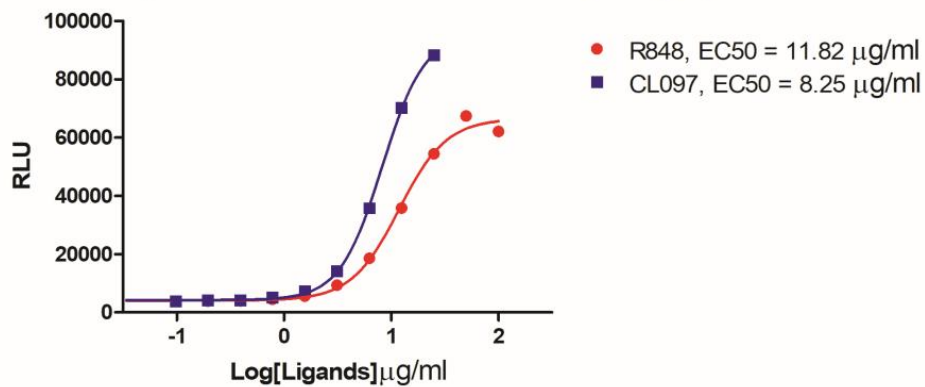


Figure 1. Detect Luciferase assay by Ultra Luciferase Detection Kit CBPH0001 (we strongly suggest to purchase from Cobioer).TLR8/NF- κ B Reporter - HEK293 Recombinant Cell Line (C1).

