

TLR7/NF κ B-Luc/HEK293

CBP74090

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I. Background

TLR7, toll like receptor 7, is an endosomal receptor that recognizes single-stranded RNA and functions in activation of the inflammatory response (PMID: 28620298, PMID: 28374903). Overexpression of Tlr7 has been demonstrated in pancreatic cancer (PMID: 26134824), esophageal squamous cell carcinoma, and gastroesophageal junction adenocarcinoma (PMID: 29968427, PMID: 21990957).

II. Description

The protein encoded by this gene is a member of the Toll-like receptor (TLR) family which plays a fundamental role in pathogen recognition and activation of innate immunity. TLRs are highly conserved from *Drosophila* to humans and share structural and functional similarities. They recognize pathogen-associated molecular patterns (PAMPs) that are expressed on infectious agents, and mediate the production of cytokines necessary for the development of effective immunity. The various TLRs exhibit different patterns of expression.



III. Introduction

Host Cell: HEK293

Expressed gene: TLR7、NFkB-Luc

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: MEM+10% Foetal Bovine Serum (FBS)+ 1%

Non Essential Amino Acids (NEAA) +1mM Sodium Pyruvate (NaP) +100ug/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: Embryonic kidney

Disease: Normal

Morphology: Epitheloid cell

Growth Properties: Adherent



V. Representative Data

TLR7/NF- κ B Reporter - HEK293 Recombinant Cell Line (C4)

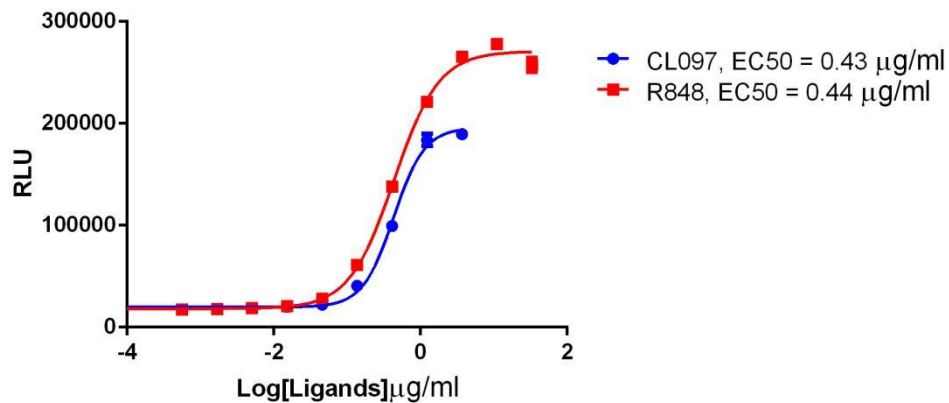


Figure 1. Detect Luciferase assay by Ultra Luciferase Detection Kit CBPH0001 (we strongly suggest to purchase from Cobioer). TLR7/NF-KB Reporter - HEK293 Recombinant Cell Line(C4).

