

OX40/NF κ B-Luc/HEK293

CBP74017

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I. Background

Tumor necrosis factor receptor superfamily, member 4 (TNFRSF4), also known as CD134 and OX40, is a member of the TNFR-superfamily of receptors. OX40 is a secondary co-stimulatory immune checkpoint molecule, expressed after 24 to 72 hours following activation. This receptor has been shown to activate NF-kappaB through its interaction with adaptor proteins TRAF2 and TRAF5. Its ligand, OX40L, binds to OX40 receptors on T-cells, preventing them from dying and subsequently increasing cytokine production. OX40 has a critical role in the maintenance of an immune response beyond the first few days and onwards to a memory response due to its ability to enhance survival.

II. Description

Recombinant HEK293 cell expressing firefly luciferase gene under the control of NF- κ B response elements with constitutive expression of human OX40 (Tumor Necrosis Factor Receptor Superfamily Member 4, TNFRSF4, and CD134, GenBank Accession No. NM_003327)



III. Introduction

Host Cell: HEK293

Expressed gene: NF- κ B-Luciferase-OX40

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

Synonym(s): OX40, OX40 cell Line, CD134 Cell Line, ox40 nfkb

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

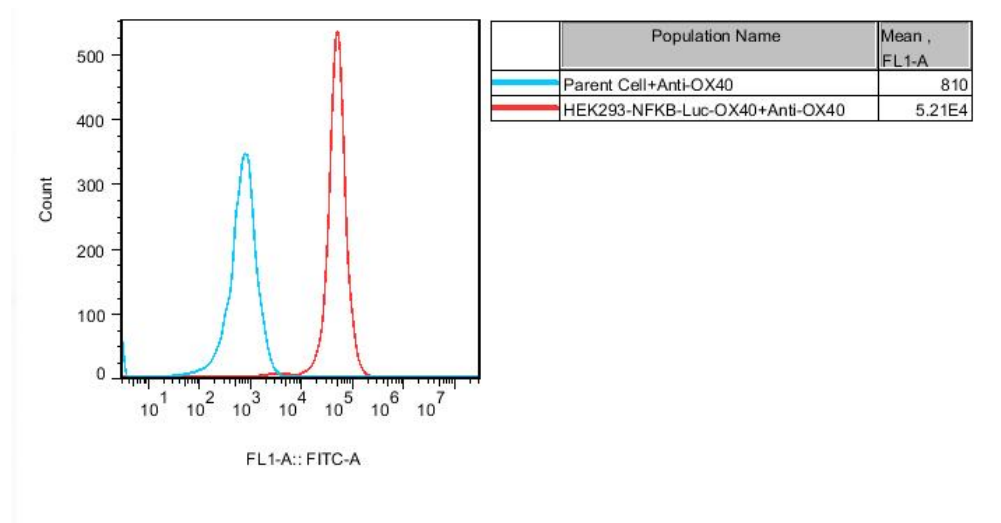


Figure 1. Recombinant HEK293 cell expressing firefly luciferase gene under the control of NF- κ B response elements with constitutive expression of human OX40 (Tumor Necrosis Factor Receptor Superfamily Member 4, TNFRSF4, and CD134, GenBank Accession No. NM_003327)



OX40/NF- κ B Reporter - HEK293 Recombinant Cell Line (C1)

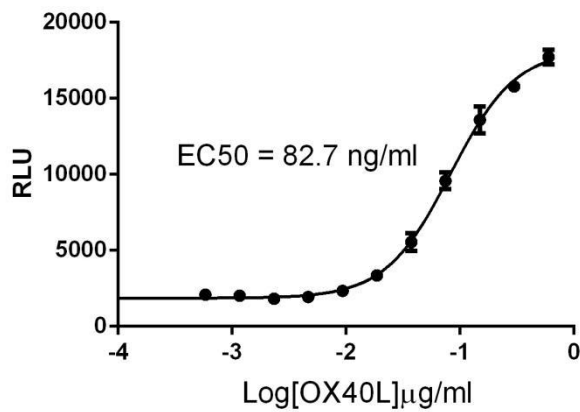


Figure 2. Detect Luciferase assay by Ultra Luciferase Detection Kit CBPH0001 (we strongly suggest to purchase from Cobioer). HEK293/NF- κ B Luciferase-OX40 Reporter cells were stimulated by OX40L, the EC50 was 82.7 ng/ml.

