hIL13 Effector Reporter Cell

CBP74111

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I. Background

Human IL-13 is expressed in activated T- helper cells (resembling Th0, T h1, Th2), and T-cells expressing CD8. The alpha chain of the IL1-3 recep tor has weak binding activity for IL-13. High affinity receptors are forme d when the receptor alpha chains of IL-13 and IL-4 receptors are coexpres sed. The receptors for IL-13 and IL-4 share a common gamma subunit tha t is found also in the IL-2 receptor. Different IL-13 receptor structures ha ve been shown to exist on various cell types and the IL-13 receptor may s hare more than one component with IL-4 receptor. IL-13 down-modulates macrophage activity, reducing the production of pro-inflammatory cytoki nes and chemokines in response to IFN-gamma or bacterial lypopolysacc harides. IL-13 enhances the production of the IL-1 receptor antagonist IL-1ra. IL-13 also decreases the production of nitric oxide by activated macr ophages, leading to a decrease in parasiticidal activity. IL-13 induces diff erentiation of human monocytes, enhances survival time in culture, and al so induces differentiation and proliferation and Isotype switching in B-cells.

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II. Introduction

Expressed gene: hIL13

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

Synonym(s): IL-13, IL13, ALRH, Allergic Rhinitis, BHR1, Bronchial Hyperresponsiveness-1 , Interleukin-13

Freeze Medium: 90% FBS+10% DMSO

Culture Medium: DMEM+10%FBS+200ug/ml hygromycin+2ug/ml puromycin+5ug/ml blasticidin

Mycoplasma Testing: Negative

Storage: Liquid nitrogen

Application(s):Functional(Report Gene) Assay

III. Representative Data

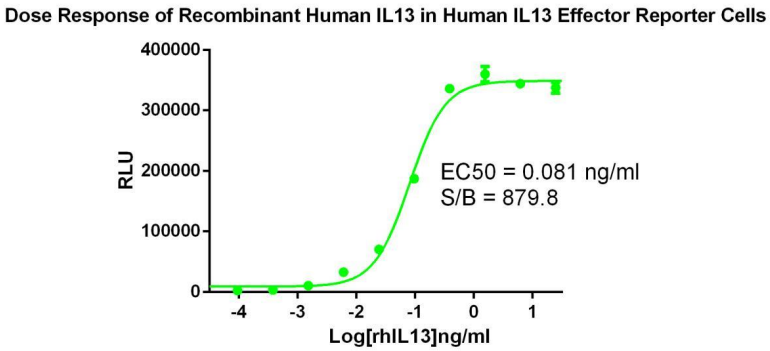

Figure1 . Dose Response of Recombinant Human lL13 in Human IL13 Effector Reporter Cells.

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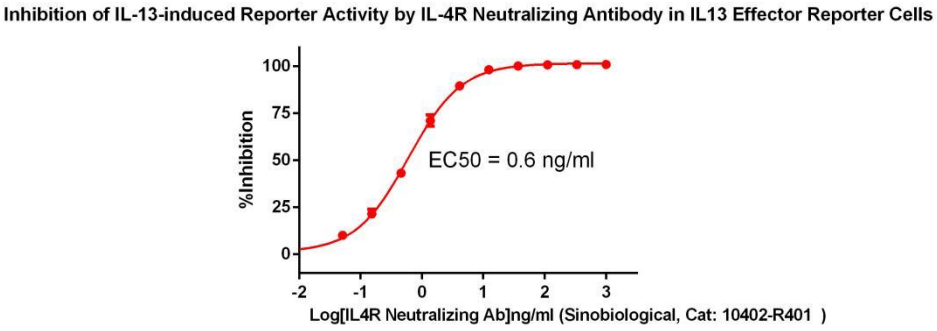

Figure 2. Inhibition of lL-13-induced Reporter Activity by IL-4R Neutralizing Antibody in IL13 Effector Reporter Cells.

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