

CD40/CHO

CBP74034

Contents

I. Background.....	1
II. Description.....	1
III. Introduction.....	2
IV. Description of Host Cell Line.....	2
V. Representative Data.....	3



CD27/CHO

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I. Background

CD40, a TNF receptor superfamily member, was initially identified on B lymphocytes. However, other cell types such as monocytes, basophils, dendritic cells, endothelial cells, and epithelial cells have been found to express CD40. High levels of CD40 have also been detected in numerous human cancers, including HCT116, a colon cancer epithelial cell line. Interaction with CD40 ligand (CD40L, CD154) on CD4⁺ T helper lymphocytes triggers the expression of intercellular adhesion molecule (ICAM) and other pro-inflammatory cytokines. CD40:CD40L signaling simultaneously increases activation of antigen-specific T cells. CD40 also activates NF- κ B-dependent signaling in response to lipopolysaccharide (LPS) found on Gram negative bacterial pathogens. Agonistic CD40 monoclonal antibodies have been shown to activate antigen presenting cells (APC), promote anti-tumor T-cell responses, and to foster cytotoxic myeloid cells, suggesting a potential mechanism to control cancer in the absence of T-cell immunity.

II. Description



Recombinant CHO cell line expressing full length human CD40 (Tumor necrosis factor receptor superfamily member 5; TNFRSF5), Genbank Accession No. NP_001241.1.

III. Introduction

Host Cell: CHO

Expressed gene: CD40

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: F12k+10%FBS+5ug/ml puromycin

Storage: Liquid nitrogen

Application(s): Binding Assay,FACS

IV. Description of Host Cell Line

Organism: *Cricetulus griseus*, hamster, Chinese

Tissue: Ovary

Disease: Hamster Chinese ovary

Morphology: Epitheloid cell

Growth Properties: Adherent



V. Representative Data

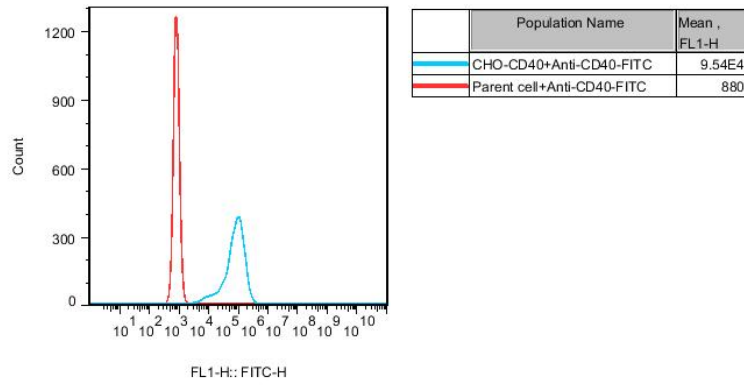


Figure 1. Recombinant CHO cell line expressing full length human CD40

