# ADCP Bioassay Effector Cell Fc γ RIIa (H variant) -NFAT/Jurkat

# CBP74106

## Contents

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## I. Background

Antibody-dependent cell-mediated phagocytosis (ADCP) is one of the important mechanisms of action for antibody drug development. FcγRIIa is the predominant Fcγ receptor involved in the ADCP process. FcγRIIa is expressed in myeloid effector cells, including macrophages and neutrophils, where it plays a role in the activation of these effector cells. Several clinical studies have studied the correlation of a FcγRIIa polymorphism (R131H) and the response to IgG1 subclass monoclonal antibodies (mAbs) such as rituximab. Engineered amino-acid substitutions in Fc-mAbs have been developed to enhance the mAb-mediated phagocytosis of tumor cells by macrophages.

## II. Description

Recombinant Jurkat T cell expressing a firefly luciferase gene under the control of NFAT response elements with constitutive expression of human FcγRIIa, Histidine variant.



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## III. Introduction

Host Cell: Jurkat

Expressed gene: Fc γ RIIa (H variant)-NFAT

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: RPMI-1640+10%FBS+1ug/ml puromycin+400ug/ml hygromycin

Storage: Liquid nitrogen.

Application(s): Functional(Report Gene) Assay

## IV. Description of Host Cell Line

Organism: Homo sapiens, human

Tissue: Peripheral blood

Disease: Acute T cell leukemia

Morphology: Lymphoblast

Growth Properties: Suspension

## V. Representative Data



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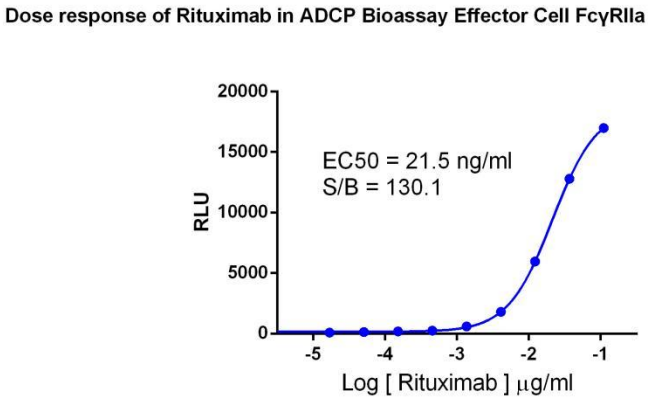


Figure 1. Dose response of Rituximab in ADCP Bioassay Effector Cell FcyRlla (H variant) /NFAT Reporter-Jurkat (C2)， the EC50 was 21.5ng/ml.


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