

LAG3/IL-2-Luc/Jurkat

CBP74079

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I. Background

Lymphocyte-activation gene 3 (LAG3, CD223) is a cell surface protein that belongs to immunoglobulin (Ig) superfamily. LAG3 is expressed on activated T cells, natural killer cells, B cells, and plasmacytoid dendritic cells.

II. Description

Recombinant Jurkat T cell expressing firefly luciferase gene under the control of IL-2 response elements with constitutive expression of human LAG3 (lymphocyte-activation gene 3, CD223, GenBank Accession # NM_002286).

III. Introduction

Host Cell: Jurkat

Expressed gene: LAG3-IL2-Luc

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

Synonym(s): CD223, LAG-3, Ly66, lymphocyte activating 3,



lymphocyte-activation gene 3, LAG3, Lag3, IL-2 Promoter reporter,

lentivirus reporter, HIV reporter, VSV-G reporter

Freeze Medium: 90% FBS+10% DMSO

Culture Medium: RPMI-1640+10%FBS+1ug/ml puromycin+10ug/ml blasticidin

Mycoplasma Testing: Negative

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



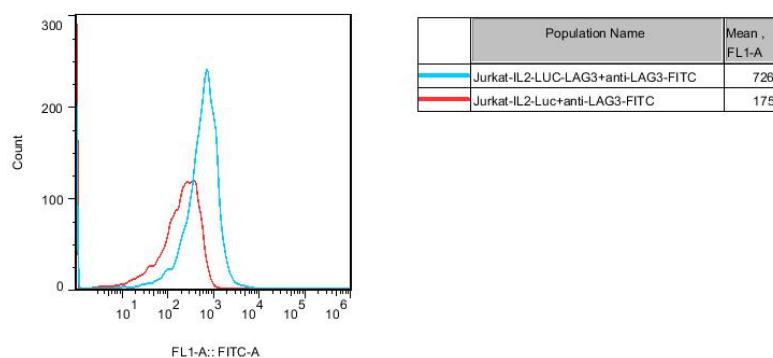
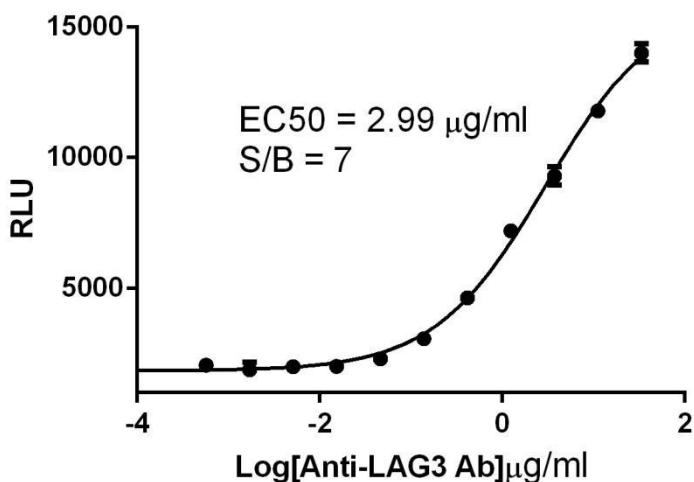


Figure 1. Recombinant Jurkat stably expressing human LAG3.

Dose Response of Anti-LAG3 Neutralizing Antibody in LAG3/IL2 Promoter Reporter-Jurkat Cells



Assay specifics: E:T ratio = 4:1; Raji cells as target cells;
SEE Con = 0.01 ng/ml

Figure 2. Detect Luciferase assay by Ultra Luciferase Detection Kit CBPH0001 (we strongly suggest to purchase from Cobioer). Dose Response of Anti-LAG3 Neutralizing Antibody in LAG3/IL2 Promoter Reporter-Jurkat Cells, the EC50=2.99 $\mu\text{g}/\text{ml}$.

