

LAG3/HEK293

CBP74051

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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. Its main ligand is MHC class II, to which it binds with higher affinity than CD4. It negatively regulates cellular proliferation, activation, and homeostasis of T cells, in a similar fashion to CTLA-4 and PD-1, and has been reported to play a role in Treg suppressive function. A number of LAG3 antibodies are in preclinical development for treatments for cancer and autoimmune disorders. LAG3 may be a better immune checkpoint inhibitor target than CTLA-4 or PD-1 since antibodies to these two checkpoints are only activating effector T cells, and not inhibiting Treg activity where an antagonist LAG3 antibody can both activate effector T cells (by downregulating the LAG3 inhibiting signal) and inhibit induced (i.e. antigen-specific) Treg suppressive activity.

II. Description

Recombinant HEK293 stably expressing human LAG3



(lymphocyte-activation gene 3, CD223, GenBank Accession #
NM_002286).

III. Introduction

Host Cell: HEK293

Expressed gene: LAG3

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

Synonym(s): LAG3

Freeze Medium: 90% FBS+10% DMSO

Culture Medium: DMEM +10%FBS+1ug/ml puromycin

Mycoplasma Testing: Negative

Storage: Liquid nitrogen

Application(s): Binding Assay,FACS

IV. Description of Host Cell Line

Organism: Homo sapiens, human

Tissue: Embryonic kidney

Disease: Normal

Morphology: Epitheloid cell



Growth Properties: Adherent

V. Representative Data

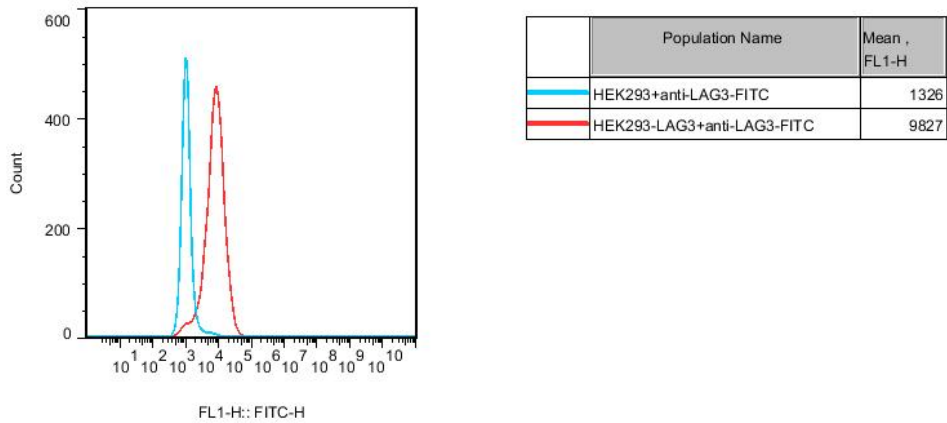


Figure 1. Recombinant HEK293 stably expressing human LAG3 (lymphocyte-activation gene 3, CD223, GenBank Accession # NM_002286).

