Genomeditech (Shanghai) Co.,Ltd.
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# Product Sheet

## H_BDCA2 Jurkat Cell Line

Catalog number: GM-C20052

Version 3.3.1.250109

| | |
|---|---|
| **Description** | H_BDCA2 Jurkat Cell Line is a clonal stable Jurkat cell line that constitutively expresses the human BDCA2 and human FCER1G genes, constructed using lentiviral technology. |
| **Quantity** | 5E6 Cells per vial,1 mL |
| **Product Format** | 1 vial of frozen cells |
| **Shipping** | Shipped on dry ice |
| **Storage Conditions** | Liquid nitrogen immediately upon receipt |

| | |
|---|---|
| **Target** | Human_BDCA2 & Human_FCER1G |
| **Gene ID/Uniprot ID** | Q8WTT0-1 & P30273 |
| **Host Cell** | Jurkat |

| | |
|---|---|
| **Recovery Medium** | RPMI 1640+10% FBS+1% P.S |
| **Growth medium** | RPMI 1640+10% FBS+1% P.S+400 μg/mL G418+0.75 μg/mL Puromycin |
| **Note** | None |
| **Freezing Medium** | 90% FBS+10% DMSO |
| **Growth properties** | Suspension |
| **Growth Conditions** | 37°C, 5% $CO_2$ |

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|---|---|
| **Mycoplasma Testing** | The cell line has been screened to confirm the absence of Mycoplasma species. |
| **Safety considerations** | Biosafety Level 2 |
| **Note** | It is recommended to expand the cell culture and store a minimum of 10 vials at an early passage for potential future use. |

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## Materials

| Reagent | Manufacturer/Catalogue No. |
|---|---|
| RPMI 1640 | VivaCell/C3010-0500 |
| Fetal Bovine Serum | Cegrogen biotech/A0500-3010 |
| Pen/Strep | Thermo/15140-122 |
| G418 | Genomeditech/GM-040402 |
| Puromycin | Genomeditech/GM-040401 |
| Anti-H_BDCA2 hIgG1 Antibody(Litifilimab) | Genomeditech/GM-31294AB |

## Figures

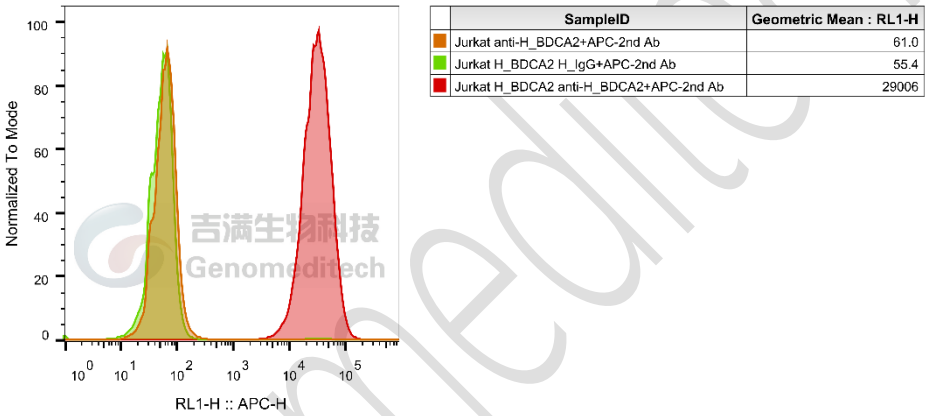


Figure 1 | H_BDCA2 Jurkat Cell Line (Cat. GM-C20052) was determined by flow cytometry using Anti-H_BDCA2 hIgG1 Antibody(Litifilimab) (Cat. GM-31294AB).

## Cell Recovery

Recovery Medium: RPMI 1640+10% FBS+1% P.S

To insure the highest level of viability, thaw the vial and initiate the culture as soon as possible upon receipt. If upon arrival, continued storage of the frozen culture is necessary, it should be stored in liquid nitrogen vapor phase and not at -70°C. Storage at -70°C will result in loss of viability.

a) Thaw the vial by gentle agitation in a 37°C water bath. To reduce the possibility of contamination, keep the O-ring and cap out of the water. Thawing should be rapid (approximately 2 - 3 minutes).

b) Remove the vial from the water bath as soon as the contents are thawed, and decontaminate by dipping in or spraying with 70% ethanol. All of the operations from this point on should be carried out under strict aseptic conditions.

c) Transfer the vial contents to a centrifuge tube containing 5.0 mL complete culture medium. And spin at approximately 176 x g for 5 minutes. Discard supernatant.

d) Resuspend cell pellet with the recommended complete medium. And dispense the suspension into 1 - 2 T-25 culture flasks.

e) Incubate the culture at 37°C in a suitable incubator. A 5% $CO_2$ in air atmosphere is recommended if using the medium described on this product sheet.

## Cell Freezing

Freezing Medium: 90% FBS+10% DMSO

a) Centrifuge at 176 x g for 3 minutes to collect cells.

b) Resuspend the cells in pre-cooled freezing medium and adjust the cell density to 5E6 cells/mL.

c) Aliquot 1 mL into each vial.

d) Place the vial in a controlled-rate freezing container and store at -80°C for at least 1 day, then transfer to liquid nitrogen as soon as possible.

## Cell passage

Growth medium: RPMI 1640+10% FBS+1% P.S+400 μg/mL G418+0.75 μg/mL Puromycin

Approximately 48-72 hours after the initial thawing, the cells can be passaged for the first time. After this initial passage, the culture medium can be adjusted to growth medium supplemented with antibiotics. If cells are not passaged within 48 hours, it is recommended to add some fresh recovery medium and place the flask horizontally.

a) When the cell density reaches 1.5 - 2E6 cells/mL, subculture the cells. Do not allow the cell density to exceed 2E6 cells/mL.

b) It is recommended to use T-25 flasks for subculturing.

c) These cells are suspension cells, and it is recommended to use the "half-medium change" method to maintain optimal cell conditions during passaging.

d) During passaging, you can directly add fresh growth medium to the culture flask, gently pipette to resuspend the cells, and then transfer the cell suspension to a new T-25 flask for continued culture.

**Subcultivation Ratio: Maintain cultures at a cell concentraion between 3E5 and 1E6 viable cells/mL.**

**Medium Renewal: Every 2 to 3 days**

## Notes

a) These cells are sensitive to density, so please ensure that the cell density is maintained within an appropriate range during culture and subculturing.

b) During the first passage, pay attention to the nutrient supply; if not subculturing, make sure to add fresh recovery medium every other day as needed.

## Sequence

CLEC4C(BDCA2) Q8WTT0-1

MVPEEEPQDREKGLWWFQLKVWSMAVVSILLLSVCFTVSSVVPHNFMYSKTVKRLSKLREYQQYHPSLTCV
MEGKDIEDWSCCPTPWTSFQSSCYFISTGMQSWTKSQKNCSVMGADLVVINTREEQDFIIQNLKRNSSYFLGL
SDPGGRRHWQWVDQTPYNENVTFWHSGEPNNLDERCAIINFRSSEEWGWNDIHCHVPQKSICKMKKIYI

FCER1G P30273
MIPAVVLLLLLLVEQAAALGEPQLCYILDAILFLYGIVLTLLYCRLKIQVRKAAITSYEKSDGVYTGLSTRNQE
TYETLKHEKPPQ

## Related Products

| CD40：CD40L | |
|---|---|
| H_CD40(TNFRSF5) Reporter 293 Cell Line | H_CD40(TNFRSF5) Reporter Jurkat Cell Line |
| Cynomolgus_CD40 CHO-K1 Cell Line | Cynomolgus_CD40L CHO-K1 Cell Line |
| H_CD40(TNFRSF5) CHO-K1 Cell Line | H_CD40(TNFRSF5) HEK-293 Cell Line |
| H_CD40L CHO-K1 Cell Line | H_CD40L HEK-293 Cell Line |
| Anti-H_CD40 hIgG1 Antibody(APX005M) | Anti-H_CD40 hIgG1 Antibody(ravagalimab) |
| Anti-H_CD40L hIgG1 Antibody(dapirolizumab) | Anti-H_CD40L hIgG1 Antibody(frexalimab) |
| Biotinylated Human CD40 Protein; His-Avi Tag | Cynomolgus CD40 Protein; His Tag |
| Human CD40 Protein; His Tag | Human CD40L Protein; His Tag |
| IFN-α | |
| IFNα Reporter HEK-293 Cell Line | IFNα Reporter MDCK Cell Line |
| IFNα Reporter THP1 Cell Line | |
| BCMA:BAFFR:TACI | |
| H_BAFFR Jurkat Blockade Reporter Cell Line | H_BAFFR Reporter Cell Line |
| H_BCMA Reporter Cell Line | H_TACI Reporter Cell Line |
| Cynomolgus_BCMA CHO-K1 Cell Line | H_BCMA CHO-K1 Cell Line |
| H_BCMA HEK-293 Cell Line | |
| Anti-BAFF hIgG1 Antibody(belimumab) | Anti-BAFFR hIgG1 Antibody(ianalumab) |
| Anti-BCMA hIgG1 Antibody(Belantamab) | Anti-BCMA hIgG1 Antibody(SEA-BCMA) |
| Anti-BCMA hIgG4 Antibody(BCMB69) | |
| Biotinylated Human BAFF Protein; His-Avi Tag | Cynomolgus BAFF Protein; His Tag |
| Human BAFF Protein; His Tag | Mouse BAFF Protein; His Tag |
| BDCA2(CLEC4C) | |
| H_BDCA2 Reporter Jurkat Cell Line | Cynomolgus_BDCA2 CHO-K1 Cell Line |
| Cynomolgus_BDCA2 Jurkat Cell Line | H_BDCA2 CHO-K1 Cell Line |
| H_BDCA2 HEK-293 Cell Line | |
| Anti-H_BDCA2 hIgG1 Antibody(Litifilimab) | |
| Cynomolgus BDCA2 Protein; His Tag | Human BDCA2 Protein; His Tag |

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