Human Recombinant CD32B 232Thr Stable Cell Line
Cat. No. M00600 **Version 04282015**

I. INTRODUCTION

Catalog Number: M00600
Cell Line Name: CHO-K1/human CD32B 232Thr
Gene Synonyms: CD32; FCG2; CD32B; FCGR2; IGFR2
Expressed Gene: Codon Optimized from AKI71009.1; no expressed tags
Host Cell: CHO-K1
Quantity: Two vials of frozen cells (1×10^6 per vial)
Stability: 15 passages
Application: Binding assay or use as immunogen
Freeze Medium: 95% complete growth medium, 5% DMSO
Complete Growth Medium: F12K, 10% FBS
Culture Medium: F12K, 10% FBS, 8 μg/ml Puromycin
Mycoplasma Status[§]: Negative
Storage: Liquid nitrogen immediately upon receipt

II. BACKGROUND

FCGR2B (CD32B) is a low affinity receptor for Immunoglobulin G (IgG). Mutations in the gene in humans lead to a lupus phenotype. The cytoplasmic part of this receptor contains an immunoreceptor tyrosine-based inhibitory motif, in contrast to the activating isoform, FCGR2A (CD32A).

§: GenScript employs a PCR-based method to test the mycoplasma. The test covers 11 of the most common strains of mycoplasma, (covering approximately 95% of M. fermentans, M. hyorhinis, M. arginini, M. orale, M. salivarium, M. hominis, M. pulmonis, M. arthritidis, M. neurolyticum, M. hyopneumoniae and M. capricolum) and one species Ureaplasma (U. urealyticum), with sufficient sensitivity and specificity.

III. REPRESENTATIVE DATA

- Protein Expression Validation

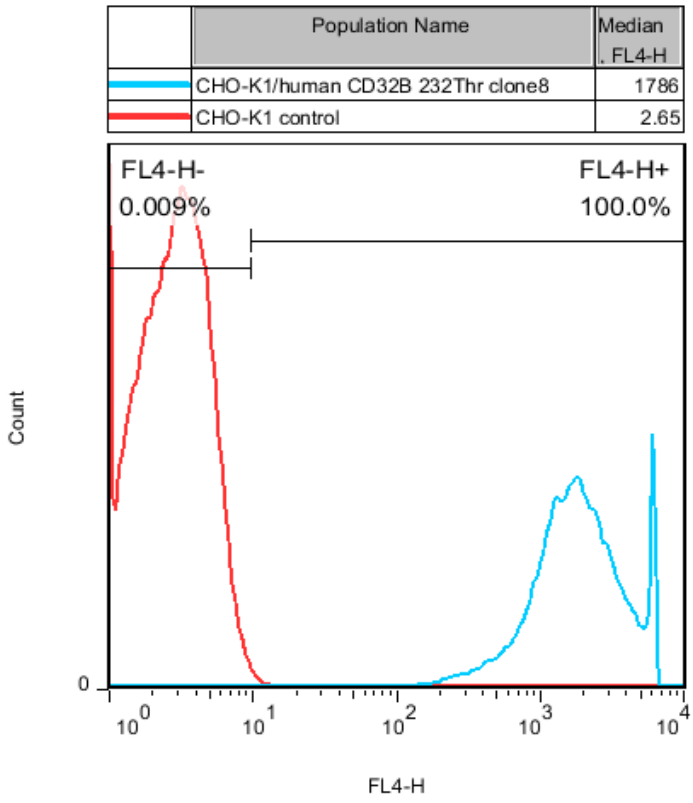

Figure 1. FACS analysis of human CD32B 232Thr expression in CHO-K1 cells.

IV. THAWING AND SUBCULTURING

Thawing Protocol

1. Remove the vial from liquid nitrogen tank and thaw cells quickly in a 37°C water-bath.
2. Just before the cells are completely thawed, decontaminate the outside of the vial with 70% ethanol and transfer the cells to a 15 ml centrifuge tube containing 9 ml of complete growth medium.
3. Pellet cells by centrifugation at 200 x g for 5 min, and remove the medium.
4. Resuspend the cells in complete growth medium.
5. Transfer the cell suspension to a 10 cm dish with 10 ml of complete growth medium.
6. Grow the cells in incubator with 37°C, 5 %CO_2.
7. Add antibiotic the following day.

Sub-culturing Protocol

1. Remove the culture medium from cells.
2. Wash cells with PBS (pH=7.4) to remove all traces of serum that contains trypsin inhibitor.
3. Add 2.0 ml of 0.25% (w/v) Trypsin- EDTA (GIBCO, Cat No. 25200-072) solution into 10 cm dish and observe the cells under an inverted microscope until cell layer is dispersed (usually within 3 to 5 minutes).
   Note: To avoid cells clumping, do not agitate the cells by hitting or shaking the dish while waiting for the cells detach. If cells are difficult to detach, please place the dish in 37°C incubator for ~2 min.
4. Add 6.0 to 8.0 ml of complete growth medium into dish and aspirate cells by gently pipetting.
5. Centrifuge the cells at 200 x g for 5 min, and remove the medium.
6. Resuspend the cells in culture medium and add the cells suspension to new culture dish.
7. Grow the cells in incubator with 37°C, 5% CO_2.

Subcultivation Ratio: 1:3 to 1:8 weekly.
Medium Renewal: Every 2 to 3 days

V. REFERENCES

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2. Rankin,C.T., Veri,M.C., Gorlatov, S., Tuaillon, N.,Burke, S., Huang ,L., Inzunza ,H.D., Li, H., Thomas,S., Johnson, S., Stavenhagen, J., Koenig, S., Bonvini ,E. CD32B, the human inhibitory Fc-γ receptor IIB, as a target for monoclonal antibody therapy of B-cell lymphoma [J]. Blood. 2006, 108 (7): 2384–91.

3. Zhou, P., Comenzo, R.L., Olshen, A.B., Bonvini,E., Koenig, S., Maslak, P.G., Fleisher, M., Hoffman ,J., Jhanwar, S., Young, J.W., Nimer, S.D., Boruchov, A.M. CD32B is highly expressed on clonal plasma cells from patients with systemic light-chain amyloidosis and provides a target for monoclonal antibody–based therapy [J]. Blood. 2008, 111 (7): 3403–6.

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