Human Recombinant FCGR2A Stable Cell Line

Cat. No.: FCC-122

■ Introductioin

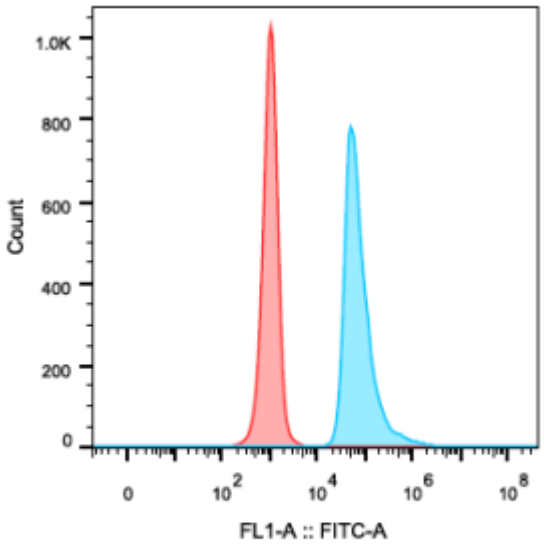
Cell Line Name:	CHO-K1/FCGR2A
Gene Synonyms:	CD32; FCG2; FcGR; CD32A; CDw32; FCGR2; IGFR2; FCGR2A1
Expressed Gene:	FCGR2A
Host Cell:	CHO-K1, (ATCC® CCL-61™)
Quantity:	Two vials of frozen cells (>1×10^6 cells/vial)
Application:	Binding assay or use as immunogen
Cryopreservation Medium:	70% Complete growth medium，20% FBS，10% (V/V) DMSO
Complete Growth Medium:	F12K, 10% FBS
Drug Screening:	12 μg/ml Puromycin
Mycoplasma Contamination:	Not detected
Storage:	Liquid nitrogen immediately upon receipt

■ Background

This gene encodes one member of a family of immunoglobulin Fc receptor genes found on the surface of many immune response cells. The protein encoded by this gene is a cell surface receptor found on phagocytic cells such as macrophages and neutrophils, and is involved in the process of phagocytosis and clearing of immune complexes. Alternative splicing results in multiple transcript variants.

■ Representative Data

Protein Expression Validation



	Sample Name	Subset Name	Count
	FCGR2A-3.fcs	Lymphocytes	11844
	CTRL-FCGR2A.fcs	Lymphocytes	10824

Figure 1: FACS analysis of FCGR2A expression in CHO-K1/FCGR2A cells

■ Cell Culture Procedure

1. Complete Growth Medium

The base medium for this cell line is ATCC-formulated F-12K Medium, Catalog No. 30-2004. To make the complete growth medium, add the following components to the base medium: fetal bovine serum to a final concentration of 10%.

2. Subculturing

1）Remove and discard culture medium.

2）Briefly rinse the cell layer with 0.25% (w/v) Trypsin- 0.53 mM EDTA solution to remove all traces of serum which contains trypsin inhibitor.

3）Add 2.0 mL of Trypsin-EDTA solution to flask and observe cells under an inverted microscope until cell layer is dispersed (usually within 2 to 5 minutes). **Note:** To avoid clumping do not agitate the cells by hitting or shaking the flask while waiting for the cells to detach. Cells that are difficult to detach may

be placed at 37°C to facilitate dispersal.

4) Add 6.0 to 8.0 mL of complete growth medium and aspirate cells by gently pipetting.

5) Add appropriate aliquots of the cell suspension to new culture vessels.

6) Incubate cultures at 37°C.

Subcultivation Ratio: A subcultivation ratio of 1:3 to 1:5 is recommended.

Medium Renewal: Once or twice between subculture.

3. Cryopreservation

Freeze medium: 70% Complete growth medium，20% FBS ，10 % (V/V) DMSO

Storage temperature: liquid nitrogen vapor phase

4. Culture Conditions

Temperature: 37°C,

CO_2 : 5%

■ Limited Use License Agreement

This is a legal agreement between you (Licensee) and Fubio（Suzhou）Biotechnology Co., Ltd governing use of Fubio’ s stable cell line products and protocols provided to licensee. By purchasing and using the stable cell line, the buyer agrees to comply with the following terms and conditions of this label license and recognizes and agrees to such restrictions:

1) The products are not transferable and will be used at the site where they were purchased. Transfer to another site owned by buyer will be permitted only upon written request by buyer followed by subsequent written approval by Fubio.

2) The purchaser cannot sell or otherwise transfer (a) this product (b) its components or (c) materials made using this product or its components to a third party.

3) The products sold by Fubio are for laboratory and animal research purposes only. The products are not to be used on humans, for consumption, or for any unlawful uses.