Human Recombinant CD200R1 Stable Cell Line

Cat. No.: FCC-140

■ Introductioin

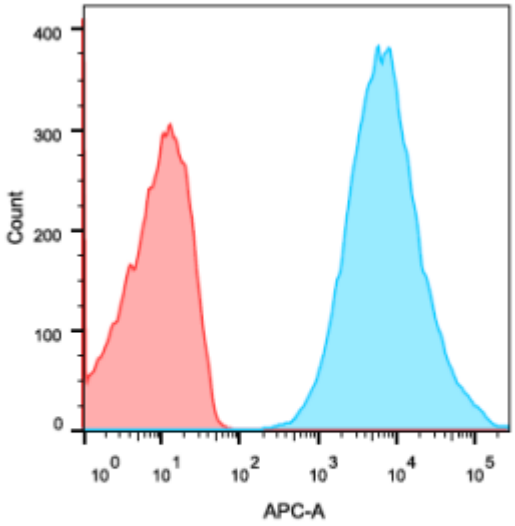
Cell Line Name:	CHO-K1/CD200R1
Gene Synonyms:	OX2R; MOX2R; CD200R; HCRTR2
Expressed Gene:	CD200R1
Host Cell:	CHO-K1, (ATCC® CCL-61™)
Quantity:	Two vials of frozen cells (>1×10^6 cells/vial)
Application:	Binding assay or use as immunogen
Cryopreservation Medium:	70% Complete growth medium，20% FBS，10% (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 a receptor for the OX-2 membrane glycoprotein. Both the receptor and substrate are cell surface glycoproteins containing two immunoglobulin-like domains. This receptor is restricted to the surfaces of myeloid lineage cells and the receptor-substrate interaction may function as a myeloid downregulatory signal. Mouse studies of a related gene suggest that this interaction may control myeloid function in a tissue-specific manner. Alternative splicing of this gene results in multiple transcript variants.

■ Representative Data

Protein Expression Validation



	Sample Name	Subset Name	Count
	Specimen_001_CHO-K1 B9_005.fcs	Lymphocytes	19925
	Specimen_001_CHO-K1_003.fcs	Lymphocytes	20023

Figure 1: FACS analysis of CD200R1 expression in CHO-K1/CD200R1 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%

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