Human Recombinant TNFRSF18 Stable Cell Line

Cat. No.: FCC-116

■ Introductioin

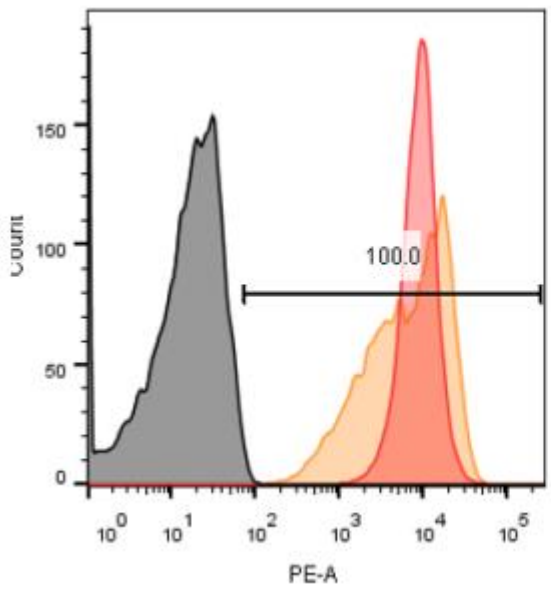
Cell Line Name:	CHO-K1/TNFRSF18
Gene Synonyms:	GITR
Expressed Gene:	TNFRSF18
Host Cell:	CHO-K1, (ATCC® CCL-61™)
Quantity:	Two vials of frozen cells (>1×10^6 cells/vial)
Application:	Binding assay or use as immunogen
Cryopreservation Medium:	70% Complete growth medium，20% FBS，10% (V/V) DMSO
Complete Growth 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 member of the TNF-receptor superfamily. The encoded receptor has been shown to have increased expression upon T-cell activation, and it is thought to play a key role in dominant immunological self-tolerance maintained by CD25(+)CD4(+) regulatory T cells. Knockout studies in mice also suggest the role of this receptor is in the regulation of CD3-driven T-cell activation and programmed cell death. Three alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported.

■ Representative Data

Protein Expression Validation



	Sample Name	Subset Name	Count
■	Specimen_001_con-_001.fcs	Single Cells	7629
■	Specimen_001_TNFRSF18-1_004.fc	Single Cells	4175
■	Specimen_001_TNFRSF18-2_005.fc	Single Cells	5680

优选TNFRSF18-1单克隆

Figure 1: FACS analysis of TNFRSF18 expression in CHO-K1/TNFRSF18 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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