Technical Data Sheet

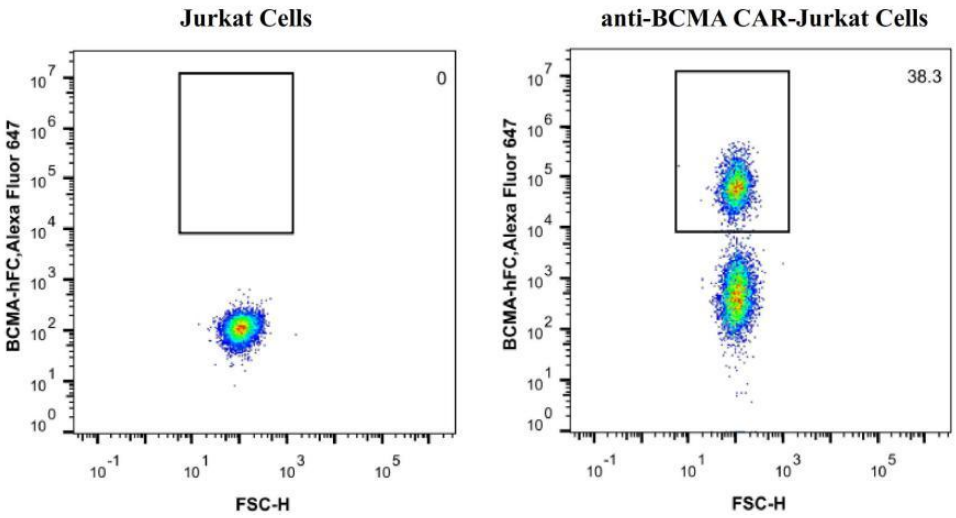
Human BCMA / TNFRSF17 Protein, Fc Tag, Alexa Fluor 647

Product Information

Material Number:	401501
Gene Name Synonym:	BCMA; CD269; TNFRSF17
Size:	25 Tests
Vol. per Test:	1 μL
Source:	Human
Expression host:	ExpiCHO cells
Molecular mass:	The recombinant human TNFRSF17 consists 303 amino acids and predicts a molecular mass of 33.3 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of human TNFRSF17 is approximately 33-44 kDa due to the glycosylation
Endotoxin:	< 1.0 EU per μg protein as determined by the LAL method
Purity:	> 95 % as determined by SDS-PAGE
Storage Buffer:	Aqueous buffered solution containing protein stabilizer and ≤0.05% ProClin 300

Description

Tumor necrosis factor receptor superfamily, member 17 (TNFRSF17), also known as B cell maturation antigen (BCMA) or CD269 antigen, is a member of the TNF-receptor superfamily. This receptor is preferentially expressed in mature B lymphocytes, and may be important for B cell development and autoimmune response. This receptor has been shown to specifically bind to the tumor necrosis factor (ligand) superfamily, member 13b (TNFSF13BBAFF), and to lead to NF-kappaB and MAPK8/JNK activation. TNFRSF17/BCMA is a target of donor B-cell immunity in patients with myeloma who respond to DLI. Antibody responses to cell-surface BCMA may contribute directly to tumor rejection in vivo.



***Flow cytometric analysis of anti-BCMA CAR expression on human Jurkat cells**. human Jurkat cells were lentivirally transduced with anti-BCMA CAR and cultured for 7 days. 2×10^5 cells were stained for the expression of anti-BCMA CAR with **Human BCMA / TNFRSF17 Protein, Fc Tag, Alexa Fluor 647** (Cat. No. 401501, right panel). Non-transduced Jurkat cells were used as a control for gating of CAR expression (left panel).*

Preparation and Storage

Shipped at 2-8°C. Store undiluted at 2-8°C and protected from prolonged exposure to light. Avoid freeze/thaw cycle.
The antigen was purified by Protein A.
The antigen was conjugated with Alexa Fluor 647 under optimum conditions, and unincorporated dye was removed.

Application Notes

Application

Flow cytometry	Routinely Tested

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Caution: Reagent containing ProClin 300 should be handled with care. Do not take internally and avoid all contact with the skin, mucosa and eyes.
3. This product is provided under an intellectual property license from Life Technologies Corporation. The transfer of this product is conditioned on the buyer using the purchased product solely in research conducted by the buyer and the buyer must not (1) use this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; or (b) manufacturing or quality assurance or quality control, and/or (2) sell or transfer this product or its components for resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5781 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@thermofisher.com.
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FCM Protocol

1. Harvest the cells and wash the cells once by FACS buffer (PBS containing 2% of BSA).
2. Count the cells number and the viability, aliquot up to 2×10^5 live cells into each tube. (Note: the cell viability must be ≥ 95%.)
3. Resuspend cells in 100 μL of diluted Human BCMA Protein, Fc Tag, Alexa Fluor 647 (Cat. No. 401501, 1:100 diluted in FACS buffer) for 30 min at 4°C.
4. Wash the cells 3 times by FACS buffer and resuspend the cells in 200 μL PBS per sample.
5. Transfer the cells into flow tube and analyze on Flow Cytometer. Acquisition of >10, 000 events is performed.