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Supplemental Information

Blocking CD30 on T Cells by a Dual Specific CAR for CD30 and Colon Cancer Antigens Improves the CAR T Cell Response against CD30^{-} Tumors

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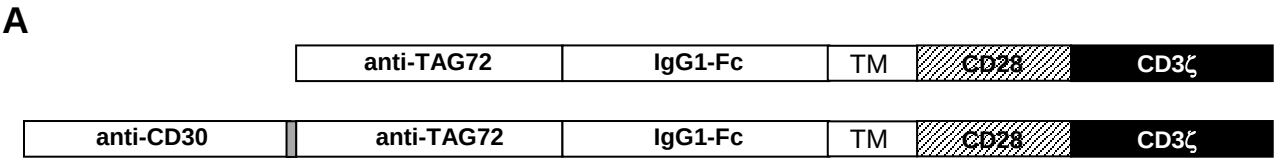
SUPPLEMENTAL INFORMATION



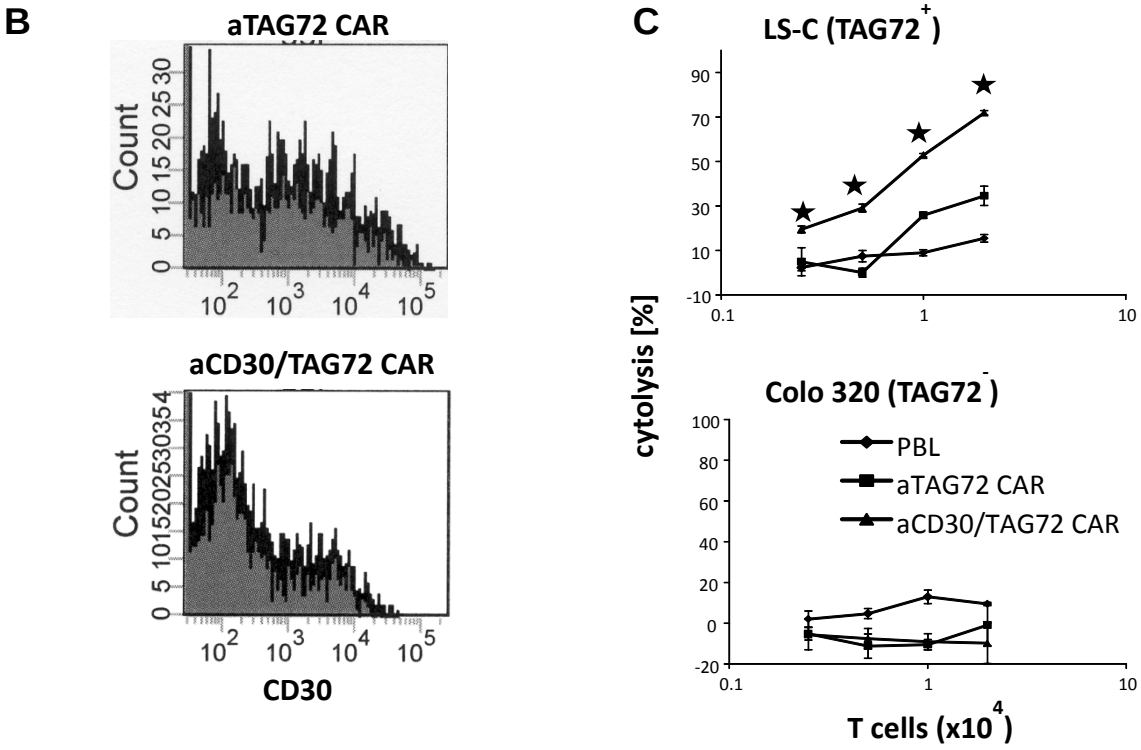


Figure S1

Superior target cell lysis of TAG72^{+} tumor cells by T cells with the anti-CD30/TAG72 CAR.

(A) Schematic representation of anti-TAG72 and anti-CD30/TAG72 CAR.

(B) CD30/TAG72 CAR T cells down-modulate CD30 expression. T cells with anti-TAG72 or anti-CD30/TAG72 CAR were cultivated in the presence of 500 U/ml IL-2. Cells were tested for CD30

by staining with an APC-conjugated anti-CD30 mAb 3 days after transduction and analyzed by flow cytometry.

(C) T cells with anti-TAG72, anti-CD30/TAG72 CAR and without CAR, respectively, were incubated in same numbers for 48 h with $TAG72^+$ LS-C or $TAG72^-$ Colo320 tumor cells (each 2.5 $x10^4$ cells/well). Viability of target cells was determined by the XTT assay and cytolysis was calculated. Data represent the mean values of technical replicates of a representative experiment $\pm$ SD. Significant differences were determined by the Student´s t test.