Supplemental Data, Figure S1.

A. Allo-CFC

 $\begin{bmatrix} \text{Allo-CFC-1} \ \text{PBMCsx} + \text{HSs} & \xrightarrow{\text{RT, 20 min}} & \text{PBMCsxHSs} + \text{IdeS} & \xrightarrow{37 \,^{\circ}\text{C}, 1 \text{ hour}} & + \text{Whole Blood} \\ \begin{bmatrix} \text{Allo-CFC-2} \ \text{PBMCsx} + \text{HSs} & \xrightarrow{\text{RT, 20 min}} & \text{PBMCsxHSs} & + \text{Whole Blood} \\ & \uparrow + \text{IdeS, 37 \,^{\circ}\text{C}, 1 \text{ hour}} & + \text{Whole Blood} \\ \end{bmatrix}$ $\begin{bmatrix} \text{Allo-CFC-3} \ \text{PBMCsx} + \text{PtS} & \xrightarrow{\text{RT, 20 min}} & \text{PBMCsxPtS} & + \text{Whole Blood} \end{bmatrix}$

B. ADCC

Effector PBMC (5) + Target CD19+ FB Cells (1) + HS
$$\xrightarrow{37^{\circ}C, 5\% CO_2, 1 \text{ hour}}$$
 7-AAD staining $\xrightarrow{1}$ + IdeS, 37 °C, 1 hour Flow Cytometry Analysis

Legend for Figure S1.

Diagrams of Allo-CFC and ADCC test procedures. To examine the effect of imlifidase (IdeS) on Allo-CFC and ADCC tests, 3 Allo-CFC experiments, Allo-CFC-1, -2 and -3, and 1 ADCC experiment were performed as written in the Material and Method. BFA: Brefeldin A; FB cells: Farage B cells; FITC: Fluorescein isothiocyanate: HSs: HLA-sensitized patient sera; PBMCsx: irradiated PBMCs prepared from five normal individuals; PBMCsxHSs: HS sera-coated PBMCsx; RT: room temperature; PtS: IdeS-treated patient serum.