Validation data for Anti-hCD27-hIgG1fut

https://www.invivogen.com/anti-hcd27-mabs

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Version 23I05-AK

Anti-hCD27-hIgG1fut is a recombinant monoclonal antibody (mAb) featuring a variable region of varlilumab, targeting the human CD27, and the non-fucosylated constant region of the enigneered human IgG1 isotype (hIgG1fut). CD27 is a member of the TNFR family and the sole receptor for CD70 (aka CD27L). IIt is expressed by mature T cells as well as various cancer cells. The detection of hCD27 by Anti-hCD27-hIgG1fut has been verified by flow cytometry using Raji-Null cells, which endogenously express CD27 **(Figure 1).** The induction of ADCC has been validated using InvivoGen's Raji-Null and Jurkat-Lucia™ NFAT-CD16 reporter cells **(Figure 2)**.

Binding of Anti-hCD27-hIgG1fut mAb to hCD27

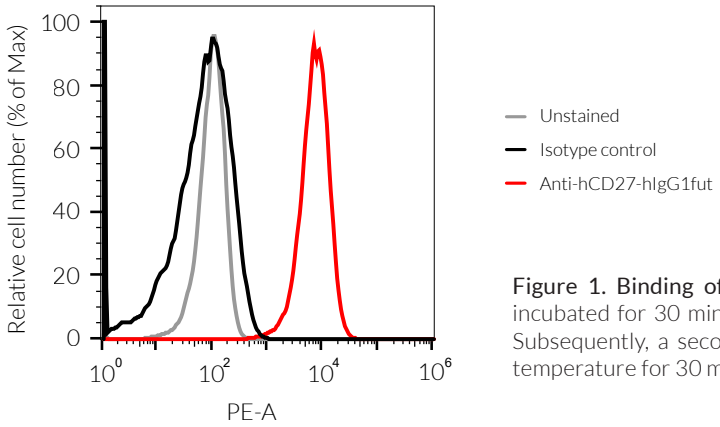

Figure 1. Binding of Anti-hCD27-hIgG1fut mAb to hCD27. Raji-Null cells were incubated for 30 minutes with 2 µg of Anti-hCD27-hIgG1fut or an isotype control. Subsequently, a secondary PE-labeled antibody was added and incubated at room temperature for 30 minutes. The binding affinity was assessed using flow cytometry.

Comparison of ADCC induction of Anti-hCD27mAbs

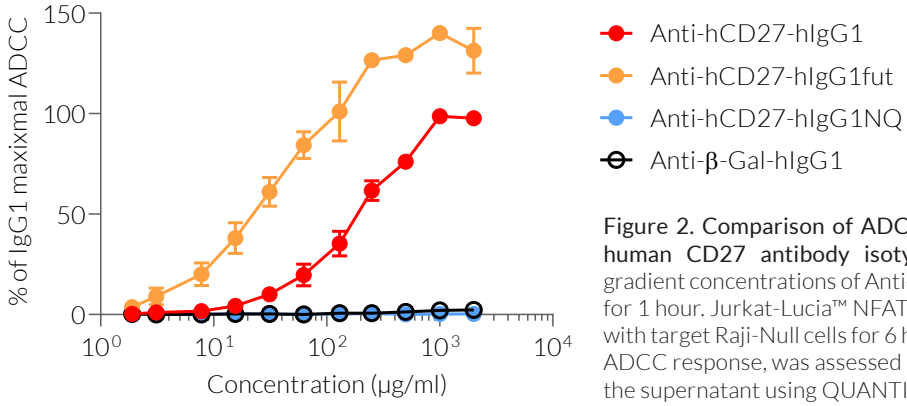

Figure 2. Comparison of ADCC potency for native and engineered anti-human CD27 antibody isotypes. Raji-Null cells were incubated with gradient concentrations of Anti-hCD27 or Anti-β-galactosidase (β-gal) mAbs for 1 hour. Jurkat-Lucia™ NFAT-CD16 effector cells were then co-incubated with target Raji-Null cells for 6 hours. NFAT activation, reflecting the induced ADCC response, was assessed by determining Lucia luciferase activity in the supernatant using QUANTI-Luc™ 4 Lucia/Gaussia. Percentages of the maximal response normalized to the IgG1 isotype are shown.

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