

Supplementary Materials

Differential Immune Response to Bioprosthetic Heart Valve Tissues in the α 1,3Galactosyltransferase-Knockout Mouse Model

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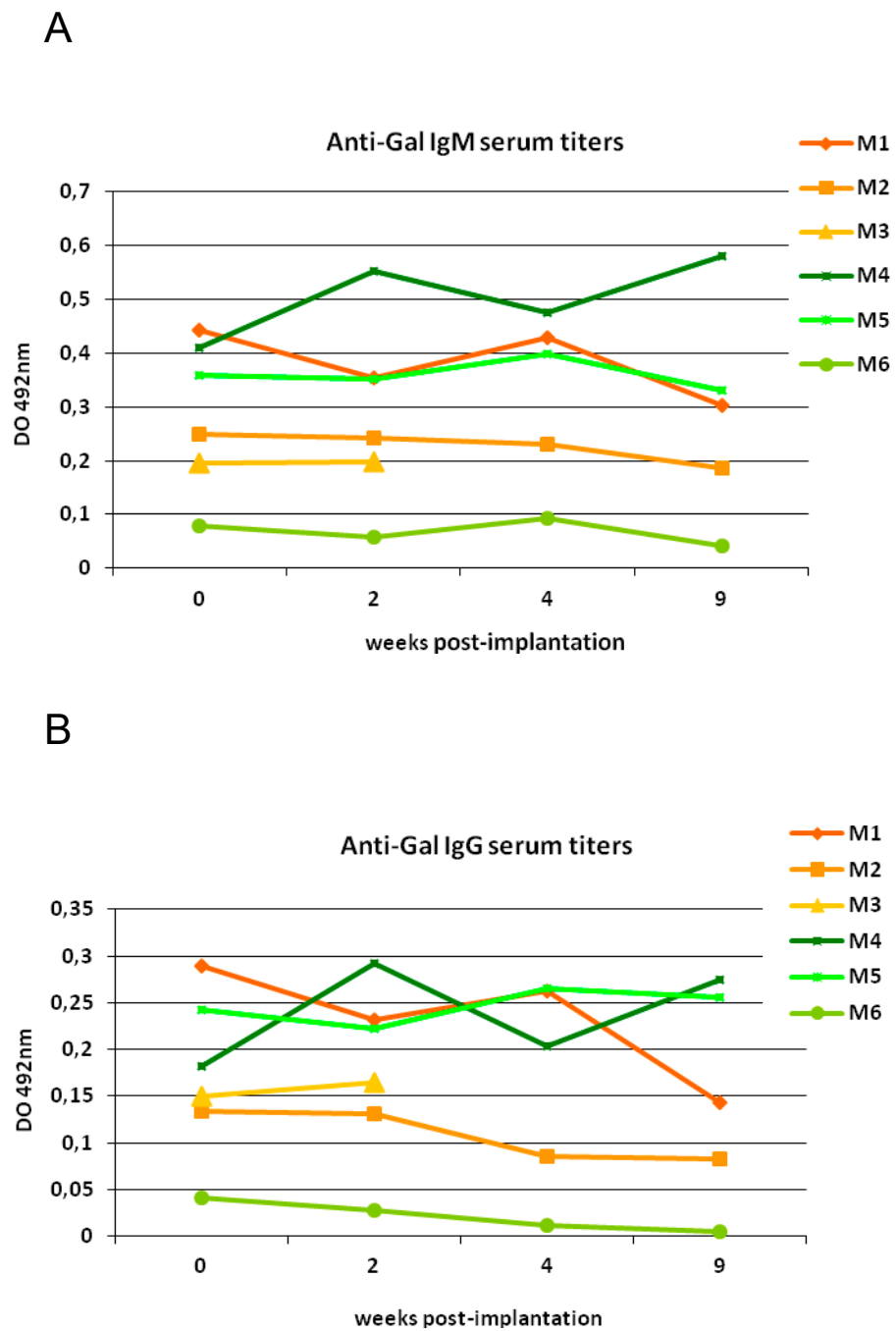
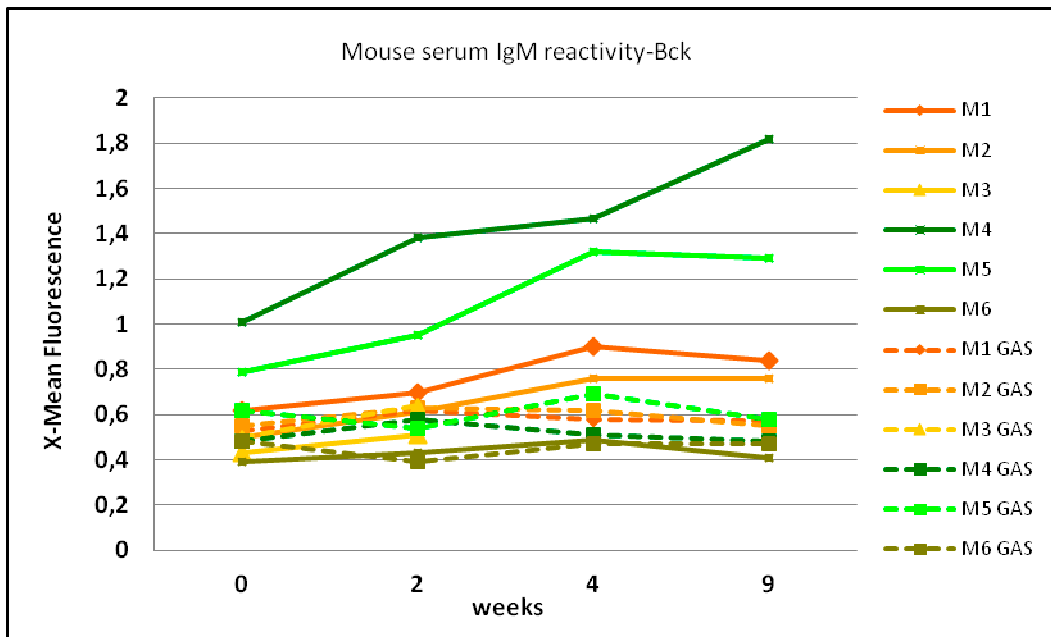


Figure S1. Determination of serum anti-Gal antibody reactivity in Gal KO mice grafted with a piece of BHV. Mouse sera isolated at various time points were incubated at 0.5% in plate wells coated Gal-HSA and IgM (A) and IgG (B) reactivity was measured by absorbance at 492 nm. Mice 1 to 3 (orange range) were grafted with ATS 3f and mice 4-6 (green range) received Pericarbon Freedom. Baseline reactivity (before implantation) is shown at time 0.

A



B

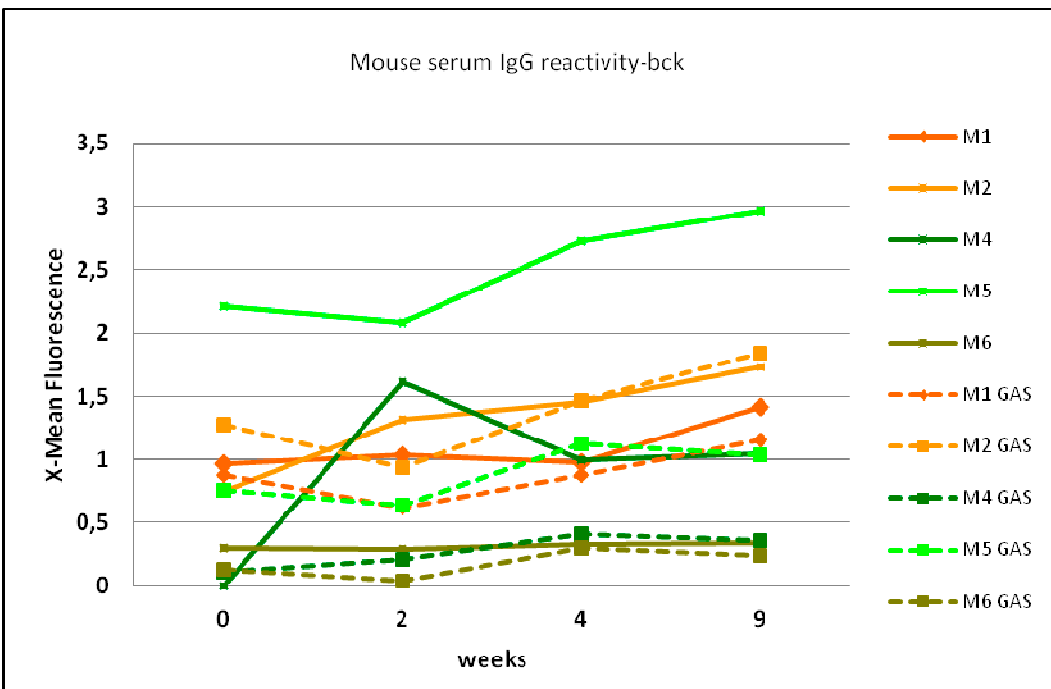


Figure S2. Determination of serum anti-PAEC antibody reactivity in Gal KO mice grafted with a piece of BHV. Mouse sera isolated at various time points were incubated at 1% (A) or 0.5% (B) with PAEC alone or with saturating concentrations of GAS914 and IgM (A) and IgG (B) reactivities were measured by FACs. The MFI after subtracting the background of secondary antibody is shown for each mouse. Mice 1 to 3 were grafted with ATS 3f (orange range) and mice 4-6 received Pericarbon Freedom (green range).

Table S1. Anti-PAEC antibody reactivity by sera from adult Gal KO mice with BHV subcutaneous implants for 4 months.

	time 0	3 weeks	2 months	4 months
ATS 3f IgM	17.5 ± 3.2	15.9 ± 2.9	13.5 ± 3.2	15.5 ± 3.1
ATS 3f IgG	nd	nd	nd	nd
FREEDOM IgM	19.7 ± 7.2	22.5 ± 6.3	23.6 ± 7.5	20.6 ± 6.2
FREEDOM IgG	6.7 ± 3	7.2 ± 3.2	10.3 ± 3.9	8.5 ± 2.1

Data are presented as Mean ± SEM of mean fluorescence intensity (n = 6 mice/cohort) without further normalization. Individual mouse sera isolated at the indicated time points post-implantation were incubated at 1% and 0.5% with PAEC and IgM and IgG reactivity respectively determined by FACs. Abbreviations: nd, not determined; FREEDOM, Pericarbon Freedom/Freedom Solo.