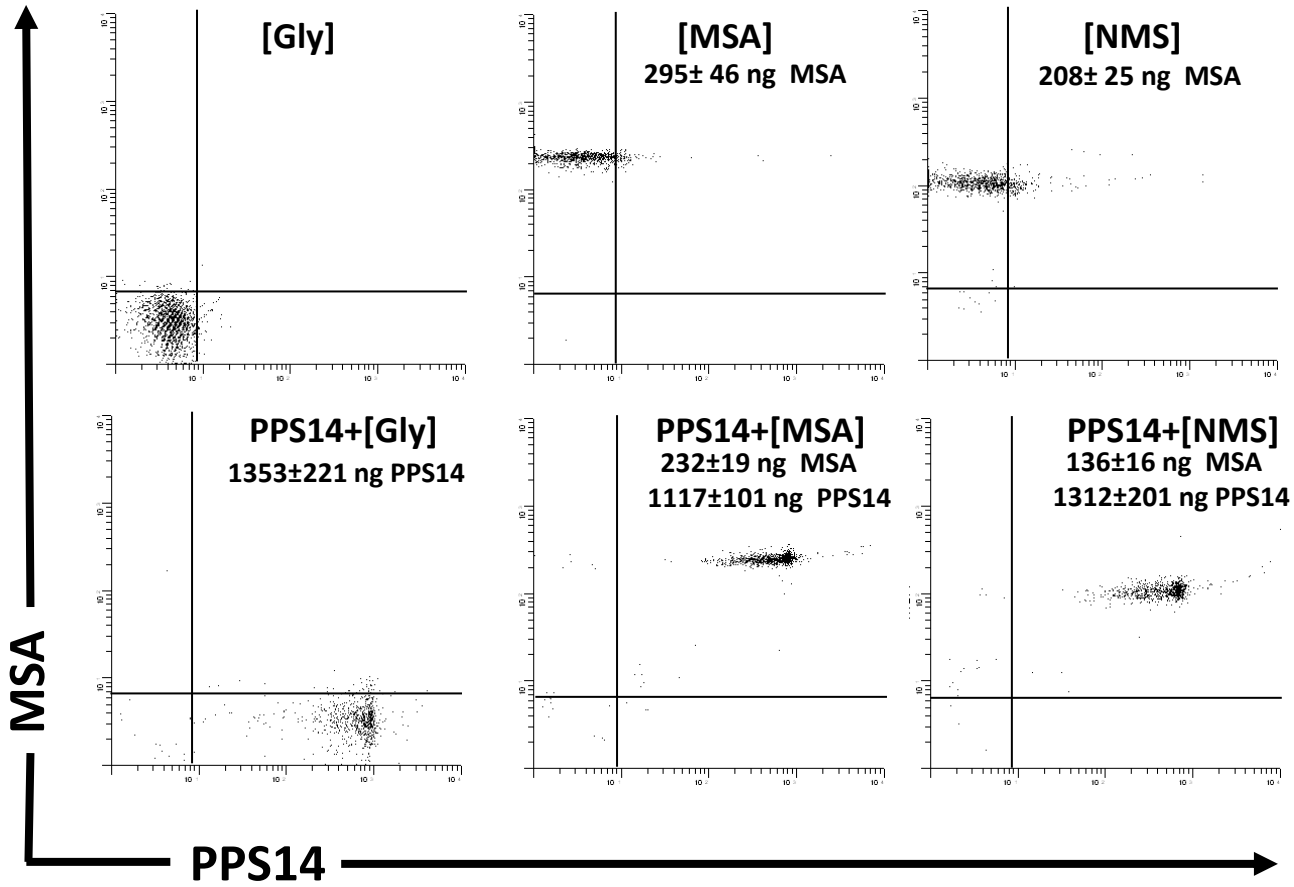
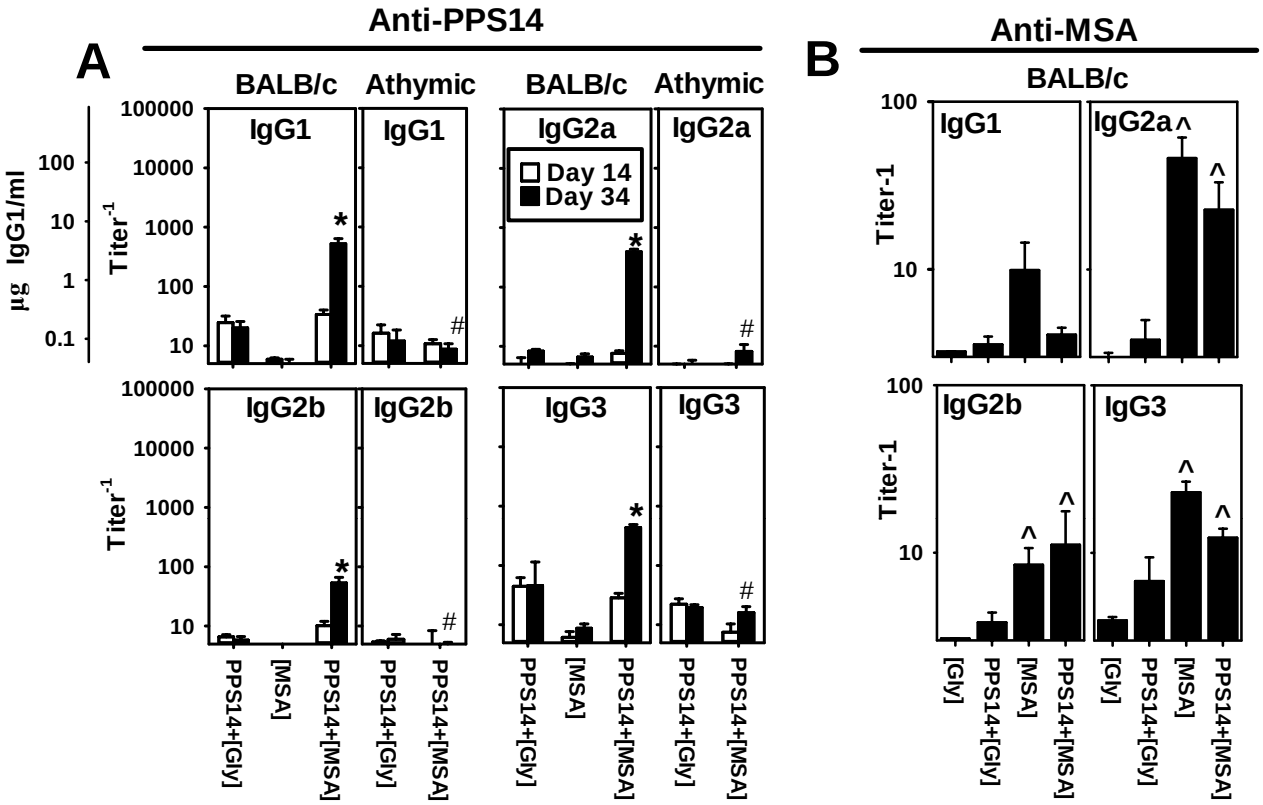


Supplemental figure 1. Co-attachment of PPS14 and MSA to the surface of latex beads. Singlet FACS scatter profile of aldehyde-sulfate latex beads, 0.96 µm in diameter, coated with the different antigens and antigen combinations indicated, and stained with unlabeled mouse IgG anti-PPS14 mAb (clone 44.1) and biotinylated goat IgG anti-mouse albumin, followed by incubation with FITC-streptavidin and PE-goat anti-mouse IgG. The MSA, and PPS14 content per 10^9 beads, as determined by ELISA, is indicated in each of the representative preparations shown.



Supplemental figure 2. PPS14- and MSA-specific IgG isotype responses induced in response to PPS14+[MSA] beads. (A) Serum PPS14-specific IgG isotype titers and (B) serum MSA- specific IgG isotype titers in BALB/c (BALB/cByJ) and BALB/c athymic nude (CByJ.Cg-*Foxn1*^{nu}/J) mice (n=7), 14 days after a primary immunization (day 14) and 20 days after a secondary immunization (day 34) with ≈ 2x10^{8} PPS14+[MSA] beads PPS14+[Gly]) beads, in alum+CpG-ODN. Responses to beads coated only with MSA ([MSA]) or glycine ([Gly]) were included as controls. For anti-MSA IgG responses only the titers of the secondary response (day 34) are included as anti-MSA IgG responses were undetectable during primary responses. The sera used in the determinations are the same shown in Figure 2. Values are expressed as geometric mean ± SEM. For IgG1 determinations a scale in weight units is included as a reference. (A) *$p < 0.05$ (titer^{-1} in primary relative to secondary response), #$p < 0.05$ (between the responses elicited in BALB/c versus athymic nude mice for each serum sample and group). (B) ^$p < 0.05$ (relative to titer^{-1} in mice immunized with [Gly]-beads). Student's *t*-test.