



**Supplementary Fig. 4: Cumulative effect of positively and negatively associated HLA alleles on anti-TSST-1 IgGt and IgA levels including p values.** Allele dosage effects of positively and negatively associated HLA DQB1 and -DRB1 alleles on anti-TSST-1 IgGt (a) and IgA (b) were assessed by assigning positively associated alleles the arbitrary value of 1 (IgGt: DQB1\*02:01, DRB1\*03:01; IgA: as before, additionally DQB1\*06:03 and DRB1\*13:01) and negatively associated alleles the value of -1 (IgGt and IgA: DQB1\*05:01, DRB1\*01:01). The allele dosage was defined as the sum of those values. Pairwise comparisons were performed using the pairwise Wilcoxon rank sum for all combinations of allele dosage groups for anti-TSST-1 IgGt (c) and IgA (d). Significant differences are highlighted in bold letters.