

**Supplementary Table S1. Number and percentage of antibodies revealing signal intensities at noise level.** Beads prepared with a protein-free solution and with normal rabbit IgG (without a defined specificity) were used to assess the non-specific background binding. The spread of non-specific binding across all samples was then used to determine the “noise” threshold in serum and plasma (*Supplementary Figure S2*). The number and percentage of antibodies revealing signal intensities below this threshold are summarized in the table. A total of 69 antibodies, namely 18% of the antibodies in the entire set revealed signal intensities at noise level.

	Nr of Antibodies		% of Antibodies	
	Plasma	Serum	Plasma	Serum
Below threshold for empty bead	16	23	4	6
Below threshold for rabbitIgG bead	66	53	17	14