Table S1: In vitro and ex vivo binding of anti-ClfA mAb11H10 to 24 *S. aureus* clinical isolates. Clinical isolates from different clonal complexes (CC) or unknown CC (UNK) were injected IP into CD1 mice (5e8CFU/mouse) and blood collected 1 or 4h later. 11H10 binding was measured by cytofluorimetry and compared with c-IgG staining. Binding was also measured by cytofluorimetry on bacteria grown overnight in TSB. (+) indicates >50% of bacteria exhibited at least a one log shift in mean fluorescence as compared to c-IgG. Data represent binding from two independent experiments.

	NRS123	ARC634	ARC635	ARC797	ARC2379	NRS382	NRS384	ARC2464	ARC517	SF8300	Newman
CC	1	5	5	5	5	5	8	8	8	8	8
In vitro	-	-	-	+	-	-	-	-	+	+	+
1h post	+	+	+	-	+	+	+	+	+	+	+
4h post	-	+	-	+	-	-	-	-	-	+	+

	BAA1556	NRS249	NRS234	ARC633	UAMS-1	ARC2081	NRS22	ARC516	ARC2558	ARC1056	NRS655	ARC2558
CC	8	247	15	15	30	30	45	UNK	UNK	UNK	UNK	UNK
In vitro	-	-	-	+	+	+	+	+	-	+	+	-
1h post	-	-	-	+	+	+	+	+	+	+	+	+
4h post	+	+	+	-	+	+	+	+	+	+	+	+