

Table S1. Sequence data and reactivity of antibodies from IgG+ memory B cells from healthy donor VB

Ig	HEAVY						LIGHT						REACTIVITY														
	gmVB	VH	D	RF	JH	V-Mut.	CDR3 (aa)	(+)	Length	Subclass	Vκ	Jκ	V-Mut.	CDR3 (aa)	ssDNA	dsDNA	LPS	insulin	Hep2	S. aur	S.pyo	S.pneu	E.fae	E.coli	Pn-Vax	PedHIB	Meno
VB1	4-59	6-13	2	4	17	GSGSRAAVPDY	1	11	IgG1	4-1	3	2	QQYTTSSST	+	+	+	+	+	+	+	+	+	+	+	+	+	+
VB4	4-39	/	/	2	27	HERKGHTWYFDL	4	12	IgG1	3-11	3	15	QMRNYGWPFVT	+	+	+	+	+	+	+	+	+	+	+	+	+	+
VB7#	3-74	/	/	4/5	28	DQSVAGTKTQDF	1	12	IgG2	3-15	1	11	QQYNNWWT														
VB10#	4-31*	2-21	2	4	35	ETTLVQVGGDCYSGPFDY	0	18	IgG2	4-1	3	14	QQYSART														
VB11#	4-34	2-2	2	5	27	NCSSSSCYGDS	0	11	IgG4	2-28	2	8	MQALQTPYT														
VB23#	4-31*	/	/	5	19	ELSFSSGHPPRFDP	2	15	IgG1	1-5*	1	10	QQYNTYSRT														
VB26#	3-30	3-22	2	4	22	DFYYVDSRGYSRTRLRFES	4	19	IgG1	1-13	4	19	QQDFDQLT														
VB34	3-30	1-26	1	3	24	AVEWEILEPRNNPFDL	1	16	IgG1	3-20	2	14	QLYGDSPYP	/	/	/	/	/	/	/	/	/	/	/	/	/	+
VB41#	3-15	4-23	1	4	17	DHEFLRSHFDT	3	11	IgG1	3-20	3	8	QQYGSSPLFT														
VB50	3-11	1-26	3	4	15	DRRGIVGVSDY	2	11	IgG1	1-5*	1	2	QQYTSYTRT	/	/	/	/	/	+	+	+	+	+	/	+	+	+
VB52	3-53	/	/	6	18	DGHAGGSYFYGGMDV	1	16	IgG1	1-39	3	6	QQYTSYTRT	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VB54#	3-23	/	/	2	ND	DEGGRSKLARIRLLSGYLDL	4	20	IgG1	3-20	1	9	QQYGSYVWT														
VB56	3-7*	/	/	6	7	DFYTPSTNYYYGMDV	0	16	IgG1	3-15	1	0	QQYNNWPPST	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VB57	4-31*	3-3	2	4	15	HGAGYYDY	1	8	IgG3	3-20	1	8	QQYGHSHWT	/	/	/	/	+	/	/	+	/	/	+	/	/	/
VB58#	4-31*	4-17	2	4	28	DRRVYDGFGLDR	3	13	IgG1	1-5*	2	11	QHYNNTST	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VB60	3-11	3-10	1	4	12	VGRWFGELIYAADN	1	14	IgG1	3-15	4	4	QQYNNWPPGFLT	/	/	/	/	+	/	/	/	/	/	/	/	/	/
VB65	3-74	2-15	2	6	14	VRGTTSLMYSYGMVDV	1	16	IgG4	1-39	2	13	QQSYKTPYT	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VB68#	5-51	/	/	5	31	HESAMAEFDS	1	10	IgG1	1-5	4	11	QKYDYSVLT														
VB72	3-30	3-10	2	4	8	GRGYGSGTYYPQGLDC	2	18	IgG1	2-28	1	10	MQALQSPWT	+	+	+	+	+	+	+	+	+	+	+	+	+	+
VB78#	4-31*	2-2	1	4	21	ILVVPAGPFGFDY	0	14	IgG2	3-20	2	9	QQYGSSLMYT														
VB83	4-34	3-22	2	3	22	ARYSGYYVPAEI	1	13	IgG1	1-39	3	14	LQSYVNPFT	/	/	/	/	+	/	/	/	/	/	/	/	/	/
VB86	3-33	3-9	1	6	22	DAGYDWRNIYRNLGDV	2	18	IgG3	1-17	2	5	LQHSPPFT	/	/	/	/	+	+	+	+	+	+	+	+	+	+
VB92#	1-24	3-22	2	4	8	ASPTYDGNDFGKVFDS	1	17	IgG1	1-39	2	5	QQYTSYTPYT														
VB110	4-61	/	/	3	22	NRSSEVSFDI	1	10	IgG4	4-1	2	11	QQYHSIPTY	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VB111	3-48	2-21	3	4	8	DRVVGIFDH	2	9	IgG1	4-1	1	2	QQYYSIPWT	/	/	/	/	+	/	/	/	/	/	/	/	/	/
VB114#	3-74	/	/	4	13	HGGNTAFVDF	1	10	IgG1	3-20	1	11	QHYGSSGET														
VB120#	3-49	3-3	2	4	7	NYDFWVSGDFDY	0	12	IgG1	1-39	1	10	QQTHSAPRT														
VB121#	3-7*	5-12	2	3	31	DQDYERNGIYDAFDV	1	16	IgG3	1-6	1	25	LQDYTPRT														
VB126	4-39	/	/	5	34	HVLVDDPNWFDV	1	12	IgG2	3D-15	3	9	QHYNRWPPGIT	+	+	+	+	+	+	+	+	+	+	+	+	+	+
VB129	3-23	1-26	2	4	27	TSNWWGARSYFDY	1	12	IgG1	1-39	5	13	QHYSYIPTY	/	/	/	/	/	/	/	/	/	/	/	/	/	+
VB132	3-23	3-22	2	3	15	TYYYDNSG	0	8	IgG2	1-5*	4	9	QHYSYIPLY	+	+	+	+	+	+	+	+	+	+	+	+	+	+
VB137	3-30	5-12	2	1	31	DVGGIGYSYEGHL	1	13	IgG1	1-5	1	27	QHYNTPPWT	/	/	/	/	+	/	+	/	+	/	+	/	+	+
VB139#	5-51	/	/	4	22	HGAMISAPSSFFD	1	13	IgG1	4-1	3	19	QQYFRPFT														
VB140	3-21	3-22	2	2	18	ANHVDYRQWYFDL	2	13	IgG1	3-15	4	7	QQYDHWPLT	/	/	/	/	+	/	/	/	/	/	/	/	/	+
VB142	3-33	1-7	2	5	22	GPOYNWNNWVFDV	0	13	IgG1	4-1	5	4	QQCVSNPFT	+	+	+	+	+	+	+	+	+	+	+	+	+	+
VB148	3-33	6-19	2	2	9	GRINNSGWYLARWYFDL	2	17	IgG2	1-16	5	10	LQVNSYPT	+	+	+	+	+	+	+	+	+	+	+	+	+	+
VB155	5-51	6-19	3	4/5	35	LFGVAVAGI	0	10	IgG1	3-20	1	7	QQYSSPRT	+	+	+	+	+	+	+	+	+	+	+	+	+	+
VB161	4-61	3-22	2	5	35	GSYSFDSSGRSTDNWFDV	1	19	IgG1	3-11	2	11	QHRSDWPPMFT	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VB162	3-48	3-22	2	3	22	DLPTMIWAVESGFDI	0	17	IgG1	3-11	4	9	QQRSTWPPFT	/	/	/	/	+	/	/	/	/	/	/	/	/	/
VB165	3-30	1-7	2	4	12	EWDEHSRNYDYFDY	2	14	IgG1	3-20	1	6	QQYSSWT	/	/	/	/	+	/	+	/	/	/	/	/	/	/
VB168	5-51	/	/	4	8	GTPIYDGYDPTAWSDFD	0	17	IgG1	1-39	5	6	QQSYGTLT	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VB171#	3-33	6-19	2	2	9	GRINNSGWYLARWYFDL	2	17	IgG2	3-20	2	7	QHYGSSPYT														
VB174	3-72	/	/	5	20	LCGHCAFY	1	9	IgG2	1-17	4	13	LQHSYPLT	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VB176	3-74	2-21	2	4	14	ACDAAGTALD	0	11	IgG2	3-20	1	5	QQFTASRGT	/	/	/	/	/	/	/	/	/	/	/	/	/	+
VB179#	3-23	3-3	1	4	15	DGDIRFLERPIDY	2	13	IgG1	1-17	4	6	LQHDSYPLT														
gmVB	VH	D	RF	JH	V-Mut.	CDR3 (aa)	(+)	Length	Subclass	Vκ	Jκ	V-Mut.	CDR3 (aa)	ssDNA	dsDNA	LPS	insulin	Hep2	S. aur	S.pyo	S.pneu	E.fae	E.coli	Pn-Vax	PedHIB	Meno	
VB13	5-51	/	/	4	24	LTDH	1	4	IgG1	7-43	3	12	LLFSGGAQLWV	+	+	+	+	+	+	+	+	+	+	+	+	+	+
VB18	1-46	6-13	2	4	17	ADSSSLKSAAPAFY	1	14	IgG1	1-51	2	5	GAWDSLSLVV	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VB28	3-23	2-15	3	4	17	EVAEYGNPLFDH	1	12	IgG1	2-11	3	6	SSYAGSCL	/	/	/	/	+	/	/	/	/	/	/	/	/	/
VB43	1-69*	2-2	2	6	11	GRFGYCSGTSCYNYGMDV	1	19	IgG3	2-11	3	10	CLYANSYTFEV	+	+	+	+	+	+	+	+	+	+	+	+	+	+
VB45	3-21	3-10	2	6	11	PDYSGGNYYYGMDV	0	17	IgG3	2-14	1	3	RSYTNNTLV	/	/	/	/	/	/	/	+	/	+	/	/	/	/
VB53	5-51	/	/	4	19	SVAGGTFDY	0	9	IgG1	2-14	3	12	SSYTTSDTWV	/	/	/	/	+	/	+	/	/	/	/	/	/	/
VB70	4-59	3-22	2	3	18	ERRYYLDSSGFYSFDDAFDI	2	20	IgG1	1-44	3	9	AVWDDSRNGPV	/	/	/	/	+	+	+	+	+	+	+	+	+	+
VB73#	3-53	/	/	1	19	WW	0	2	IgG2	7-46*	3	15	SLSYSGTOV														
VB75	3-21	1-1	2	6	8	DTRLWDDNNVNSYNYYYGLDV	1	24	IgG3	2-14	3	6	SSYTSSSIPGV	/	/	/	/	+	/	+	/	/	/	/	/	/	/
VB90#	3-21	/	/	4	14	DPDHARPIDY	2	10	IgG2	4-69	3	8	QDTPWPMGV														
VB101	3-23	/	/	6	15	VMTPRGGMDV	1	10	IgG2	1-51	3	5	GTWDNSLGRV	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VB102	4-31*	3-16	1	4	21	VGLVPLATEYFDY	0	15	IgG1	2-11	3	8	CSYAGSFIYWV	/	/	/	/	+	+	/	/	+	+	/	+	+	+
VB107#	5-51	/	/	6	12	RGISPYYYGLDV	1	12	IgG1	1-47	3	ND	AAWDDNLLNGPV														
VB108	3-64	3-9	1	4	25	DRCTVIRDFDS	2	11	IgG2	7-43	2	11	LLYGDVAV	/	/	/	/	+	/	/	/	/	/	/	/	/	/
VB117#	4-28	2-21	2	5	23	DLYKSACDCGWFDV	1	14	IgG1	2-23	2	6	CSYAGNVV	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VB138	3-7*	/	/	4	19	SFWNIQNDY	0	9	IgG2	7-46*	3	8	LLSYGARV	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VB157	3-30	3-9	2	3	9	DEPYESTGYQNGFDI	0	15	IgG3	3-1	2	6	QAWDSSSVV	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VB164	3-7*	6-13	2	1	16	EDFYSWYD	0	8	IgG1	1-51	2	5	ATWDSAKL	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VB173	3-21	3-22	2	6	20	EDRSGHYYGFDV	2	12	IgG2	1-47	2	5	AAWDDSRSAVV	/	/	/	/	+	+	+	+	+	+	+	+	+	+

#, antibody was not expressed/tested; *, polymorphic alleles; RF, D gene reading frame; V-Mut., number of mutations within V region; (+), positive charges in IgH CDR3; +, reactive in ELISA; /, nonreactive in ELISA; ND, not determined. S. aur, Staphylococcus aureus (protein A); S. pyo, Streptococcus pyogenes; E. fae, Enterococcus faecalis; E.coli, Escherichia coli; Pn-Vax, Pneumovax23; PedHIB, PedvaxHIB; Meno, Menomune

Table S3. Sequence data and reactivity of antibodies from IgG+ memory B cells from healthy donor HW.

Ig		HEAVY					LIGHT					REACTIVITY															
gmHW	VH	D	RF	JH	V-Mut.	CDR3 (aa)	(+)	Length	Subclass	V _κ	J _κ	V-Mut.	CDR3 (aa)	Length	ssDNA	dsDNA	LPS	insulin	HEp2	S. aur	S.pyo	S.pneu	E.fae	E.coli	Pn-Vax	PedHIB	Meno
HW 106#	4-61	5-12	2	5	25	LQASGYDYAPYWFDFH	1	15	IgG1	4-1	1	21	QQYTYTPPT	9													
HW 120	4-31	4-23	2	4	26	ELLATGGKGFDFY	1	12	IgG3	3-15	2	13	HQYNWPPTYT	10	/	/	/	/	/	/	/	/	/	/	/	/	/
HW 149	3-21	/	/	4	16	GYFDY	0	5	IgG3	1-6	1	6	LQDYNYPRT	9	/	/	/	/	/	/	/	+	/	/	/	/	/
HW 154	3-53	/	/	4	13	DPGDLDTLDF	0	10	IgG2	3-15	5	13	QQYNNWPPIT	10	/	/	/	/	/	/	/	/	/	/	/	/	/
HW 156	3-7	/	/	4	18	RVEPTVKSFDFY	1	11	IgG2	3-15	5	10	QQYNKWPPLT	10	/	/	/	/	/	/	/	+	+	/	/	+	/
HW 161	3-74	1-26	2	4	10	LISGTYFRYYDY	1	12	IgG3	3-15	2	1	QQYNNWPPVT	10	+	+	+	+	+	+	+	+	+	+	+	+	+
HW 168	4-39	3-19	3	6	20	HRMMLTGGVLDYVYGMADI	2	19	IgG1	3-15	3	7	QQYNNWPHFT	10	/	/	/	/	/	/	/	/	/	/	/	/	/
HW 169	1-18	2-15	2	4	17	ACSGGSCYSELPDY	0	14	IgG1	3-15	2	1	QQYNNWPPYT	10	/	/	/	/	/	/	/	/	/	/	/	/	/
HW 175	1-18	3-10	3	4	20	HLVRGVINRSFDS	3	13	IgG3	3-20	1	10	QQYGTSPWT	9	+	+	+	+	+	+	+	+	+	+	+	+	+
HW 209#	4-39	3-22	3	4	19	GAITMIKVATHFDY	2	14	IgG1	3-15	3	6	QHYNWPPWT	8													
HW 221	3-74	/	/	5	14	GWAATYYFPF	0	10	IgG1	3-20	4	3	QQYGSPLT	9	/	+	+	+	+	+	/	/	+	+	/	+	+
HW 224	3-15	/	/	3	28	GWKGSFDM	1	8	IgG2	4-1	2	13	QQYYSTPYT	9	/	/	4-1	/	/	/	+	/	/	/	/	/	/
HW 230	3-7	5-12	2	1	8	DSEYSSSYWYRFFH	3	14	IgG1	3-15	4	6	QQYNDWPPLT	10	/	/	/	/	/	/	+	+	+	/	/	+	/
HW 247	3-9	3-22	2	3	13	GFFDSGGYWDADFID	0	14	IgG1	3-20	2	7	QQYGNST	8	/	/	/	/	/	/	/	/	/	/	/	/	/
HW 266	3-9	6-13	3	2	31	ASLTAAMGYFDL	0	14	IgG2	1-5*	4	8	QQYSTSALT	10	/	/	/	/	/	/	/	/	/	/	/	/	/
HW 285	3-33	6-19	2	4	9	DISGWLSNNFDY	0	13	IgG1	1D-39	2	7	QQSYSSPYT	9	/	/	/	/	/	/	/	/	/	/	/	/	/
HW 290	3-15	/	/	4	9	ESYGPFFD	0	8	IgG1	1-5*	1	6	QQYNSYSGT	9	/	/	/	/	/	/	/	/	/	/	/	/	/
HW 307	4-39	3-22	2	4	24	ENYDMSGYYPAPRPAFFDS	1	20	IgG1	1D-39	1	17	QQSYSPRT	9	/	/	/	/	/	/	/	/	/	/	/	/	/
HW 311	4-59	1-20	2	6	33	GPRVSAWNRDLQRLTFHYGLDL	4	22	IgG1	3-20	1	21	HQYGSPLT	9	/	/	/	/	/	/	/	/	/	/	/	/	/
HW 326	3-7	6-13	3	4	25	NKIPAADCLDY	1	11	IgG2	1-5*	1	11	QQFPGWV	7	/	/	/	/	/	/	/	/	/	/	/	/	/
HW 329	4-34	3-9	2	3	30	ASAYDILTGYSLDAFDI	0	18	IgG2	3-20	2	6	QHYGSSPPRYT	11	/	/	/	/	/	/	/	/	/	/	/	/	/
HW 337	4-34	2-15	2	4	18	GLYPGYCSGDICYSGPMGY	0	19	IgG1	3-20	1	11	QQYGTSPHRT	10	+	+	+	+	+	ND	ND	ND	ND	ND	ND	ND	ND
HW 352	1-3*	3-10	3	4	35	DHDGNVRGVVNPYFFDY	2	17	IgG4	3-20	4	20	QQYGTSPLT	9	/	/	/	/	/	/	/	/	/	/	/	/	/
HW 376	4-28	/	/	5	46	YDKSIRPFDS	2	10	IgG2	3-20	2	21	LQSHASPF	9	/	/	/	/	/	/	/	/	/	/	/	/	/
HW 378	1-46	3-22	2	4	15	SYYYDSSRGIDF	1	12	IgG1	1-27	1	6	QKCNFAPWT	9	/	/	/	/	+	/	/	/	/	/	/	/	/
HW 386#	3-30	5-24	3	5	12	TWGRITMGRFPD	1	12	IgG1	1D-39	2	12	QQSYRASVT	9													
HW 387	1-46	3-9	1	3	16	DPTDEILASNDWFFPRGGPDM	1	21	IgG1	3-20	4	7	QQYGVSLVT	9	/	/	/	/	/	/	/	/	/	/	/	/	/
gmHW	VH	D	RF	JH	V-Mut.	CDR3 (aa)	(+)	Length	Subclass	V _λ	J _λ	V-Mut.	CDR3 (aa)	Length	ssDNA	dsDNA	LPS	insulin	HEp2	S. aur	S.pyo	S.pneu	E.fae	E.coli	Pn-Vax	PedHIB	Meno
HW 101#	1-18	/	/	4	24	YLDGNYFDY	1	10	IgG1	2-23*	2	5	CSYAGRSTLI	10													
HW 109	3-30	3-10	2	5	20	CGDYGGSGTYPNWFDP	1	16	IgG2	2-11	1	10	CSYAGSYTFV	10	/	/	/	/	/	/	/	/	/	/	/	/	/
HW 124	3-7	/	/	4	21	DQASGKYDY	1	9	IgG2	1-40	1	6	QSHDRSLNAYV	11	/	/	/	/	/	/	/	/	/	/	/	/	/
HW 157#	3-23	3-10	3	5	25	GAPGILVRGVIRVTPFDS	1	18	IgG2	7-43	3	14	LLNFDNYVV	9													
HW 158	3-11	6-19	2	5	15	VWCSGWCPREFYRLDS	2	16	IgG1	2-14	2	12	TSYTSSGTFV	11	/	/	/	/	/	+	+	+	+	+	/	/	+
HW 174	7-81	6-13	2	6	9	THRLYNNSWFLPYDMDV	2	18	IgG1	2-14*	1	3	SSYTTTSTYV	10	+	+	+	+	+	+	+	+	+	+	+	+	+
HW 177	5-51	2-15	2	1	21	LVRDCSGGSCYSPPEKPHFQN	3	21	IgG1	1-47*	3	11	ATWDDSLSTSWL	12	/	/	/	+	/	+	+	+	+	+	+	+	+
HW 181	1-46	/	/	4	27	DNGKWAFDY	1	9	IgG2	2-14*	3	8	CSFTRSDAWV	10	/	/	/	/	/	/	/	+	/	/	/	/	/
HW 182	4-39	/	/	4	13	PGTWPHYFYFDY	1	12	IgG2	2-14*	2	8	SSYTSSSSVV	10	/	/	/	/	/	/	/	/	/	/	/	/	+
HW 205	1-69	3-22	2	6	23	VLYDRYSWFYFYALDV	1	18	IgG1	2-11	2	21	CSYTDTV	8	+	+	+	+	+	+	+	+	+	+	+	+	+
HW 225	3-30	4-17	2	5	9	DRDYGDPPNWFDP	1	14	IgG1	1-40	3	4	QSYDSSLSGWV	11	/	/	/	/	/	/	/	/	/	/	/	/	/
HW 231	3-21	6-13	1	2	25	GGGEQLPDYWFYDL	0	15	IgG1	1-51*	1	6	GTWDDSLSTGLYV	13	/	/	/	/	/	/	/	/	/	/	/	/	/
HW 237	3-48	2-15	2	5	14	LLGYCSGGSCP	0	11	IgG1	1-47*	2	1	AAWDDSLSGPVV	12	/	/	/	/	/	+	+	+	+	+	+	+	+
HW 248	3-21	/	/	5	20	VEGGLGDWYRN	1	11	IgG1	1-40	2	11	QSYDTSLSGFVI	12	/	/	/	/	/	/	/	/	/	/	/	/	/
HW 251	3-30	/	/	4	18	GPATETPKIDY	1	11	IgG2	1-51	1	3	GTWDDSLSAHV	11	/	/	/	/	/	+	/	+	+	+	+	+	+
HW 259	1-46	2-21	3	4	13	GAGQGVVTTTND	0	12	IgG2	2-11	1	3	CSWAGSYTLV	10	/	/	/	/	/	/	/	/	/	/	/	/	+
HW 296	3-21	5-18	3	5	4	ADTAMINWFDP	0	11	IgG1	2-14*	3	1	SSHTSSSTRV	10	/	/	/	/	/	/	/	/	/	/	/	/	/
HW 313	3-33	3-9	2	6	10	VYDFWSGGYGYGMDV	0	17	IgG3	2-23*	3	8	CSYATSSTLV	10	/	/	/	/	/	/	/	/	/	/	/	/	/
HW 327#	3-9	1-26	2	4	8	DTYSGVATFDY	0	11	IgG1	2-14*	3	8	SSYTSSTLV	10													
HW 330	3-15	6-13	2	4	10	PYSASWYSDY	0	10	IgG1	1-40	2	6	QSCDRLCPNVV	12	+	+	+	+	+	+	+	+	+	+	+	+	+
HW 338#	3-21	4-17	3	4	20	DPTTNMGWDFDY	0	12	IgG1	1-51	2	9	GTWDDSLSGVV	11													
HW 345	4-39	5-18	2	3	25	FGYSYPYSAFDV	0	14	IgG2	1-51*	2	7	GTWDFRLYTGVL	12	+	+	+	+	+	+	+	+	+	+	+	+	+
HW 355	3-73	6-25	2	4	18	HAASGRDC	2	8	IgG1	6-57	3	9	QSYDSSSHWV	10	+	+	+	+	+	+	+	+	+	+	+	+	+
HW 357#	3-33	3-10	3	6	3	DQPRITMVRGVPOIYCYVMDV	2	21	IgG1	1-51	2	4	GTWDDSLSAGGV	12													
HW 360	1-46	3-3	2	6	6	GMNYDFWSPWAIYVYVGMVDV	0	21	IgG1	2-14*	1	2	NSYTSSTTLV	10	+	+	+	+	+	+	+	+	+	+	+	+	+

#, antibody was not expressed/tested; *, polymorphic alleles; RF, D gene reading frame; V-Mut., number of mutations within V region; (+), positive charges in IgH CDR3; +, reactive in ELISA; /, nonreactive in ELISA; ND, not determined, S. aur, Staphylococcus aureus (protein A-); S. pyo, Streptococcus pyogenes; E. fae, Enterococcus faecalis; E.coli, Escherichia coli; Pn-Vax, Pneumovax23; PedHIB, PedvaxHIB; Meno, Menomune

Table S4. Sequences and reactivity of reverted antibodies from IgG+ memory B cells

Ig	HEAVY						LIGHT					REACTIVITY (original)		REACTIVITY (reverted)		
	VH	D	RF	JH	V-Mut.	CDR3 (aa)	Reverted CDR3 (aa)	Vκ/λ	Jκ/λ	V-Mut.	CDR3 (aa)	Reverted CDR3 (aa)	poly	HEp2	poly	HEp2
PN7	3-74	1-7	3	4	9	RVTGTTSDFDY	RVTGTTSDFDY	λ 7-46	2	5	LLSYSGTRV	LLSYSGARV	+	+	/	/
PN8	4-59	4-23	2	1	13	GDDYGVPFQH	GDDYGVPFQH	κ 4-1	2	7	QQYYSNPRT	QQYYSQPQT	+	+	+	/
PN46	4-34	3-10	2	5	22	RPYYYSGTGWS	RPYYYSGTGWS	κ 3-20	4	8	QQYDNSPFT	QQYGSSPFT	+	+	/	+
PN56	3-23	3-3	2	4	11	AFDLWSGWPFAY	AFDFWSGWPFDY	κ 3-20	5	5	QQYDSSPIT	QQYGSSPIT	+	+	/	/
PN60	3-7	6-19	2	4	13	GWGWLPD	GWGWLPDY	κ 3-20	3	19	QQYAISPIT	QQYGSSPIT	/	/	/	/
PN67	4-59	5-12	2	5	22	DRERGSYSGYGLDP	DRERGSYSGYGLDP	λ 1-47	1	10	ASWDDSLSGLYV	AAWDDSLSGLYV	/	/	/	/
PN69	1-8	2-8	2	4	17	GRGYCTNGVCYGATKYFDY	GRGYCTNGVCYGATKYFDY	λ 2-14	2	8	SSYTTNVI	SSYTTNVI	/	/	/	/
PN89	3-74	3-9	2	6	17	LGFPQRHDILTGHYLDGMDV	LGFPQRHDILTGHYLDGMDV	κ 2-30	1	3	MQGTHWPPWT	MQGTHWPPWT	+	+	/	/
PN107	3-7	1-1	2	3	21	DNWQQGVRDGFVDV	DNWQQGVRDAFDV	λ 1-40	3	13	QSYDRLRNWV	QSYDSSLNWW	+	+	/	/
PN115	3-7	3-3	2	6	25	DYDFWSGYSYYYYGMDV	DYDFWSGYSYYYYGMDV	λ 1-51	3	9	GTWDSLSVVRV	GTWDSLSAWV	/	/	/	/
PN116	4-34	/	/	3	25	GGGGFDV	GGGGFDV	κ 1-39	1	14	QQSYTTPWT	QQSYSTPWT	/	/	+	+
PN119	1-69*	2-21	3	6	23	DLQGYVTVTAMDV	DLQGYVVTAMDV	κ 1-5*	1	10	QHYSYFYT	QQYNSYSGT	/	+	/	+
PN153	3-9	/	/	6	8	SLRRYYYYGMDV	SLRRYYYYGMDV	λ 1-40	3	5	QSYDSLGSWGV	QSYDSSLGSWGV	/	/	/	/
PN162	1-69*	3-22	2	4	28	GMHDSSSFYPTQNFYD	GMHDSSGYPTQNFYD	κ 3-11	4	11	QQRSNWPLT	QQRSNWPLT	/	+	/	+
PN189	3-11	/	/	6	9	GVWGAYYYYGMDV	GVWGAYYYYGMDV	κ 1-5*	1	5	QQSNYPWT	QQYNSYSWT	/	/	/	/
VB13	5-51	/	/	4	24	LTDH	LTDY	λ 7-43	3	12	LLFSGGAQLWV	LLYGGGAQLWV	+	+	/	/
VB18	1-46	6-13	2	4	17	ADSSSLKSAAPAFY	ADSSSLKSAAPALY	λ 1-51	2	5	GAWDSLSV	GTWDSLSV	/	/	/	/
VB28	3-23	2-15	2	4	17	EVAEIGNPLFDH	EVAEIGNPLFDH	λ 2-11	3	ND	SSYAGSCL	CSYAGSCL	/	+	/	/
VB45	3-21	3-10	2	6	11	PDYGSNGYYYYGMDV	PDYGSNGYYYYGMDV	κ 2-14	1	3	RSYTNSTLV	SSYTSSTLV	/	/	/	/
VB111	3-48	2-21	3	4	8	DRVVGIFDH	DRVVILYY	κ 4-1	1	2	QQYYSIPWT	QQYYSIPWT	/	+	/	/
VB126	4-39	/	/	5	34	HVLVDDPNWFDP	HVLVDDPNWFDS	κ 3D-15	3	9	QHYNRWPPGIT	QQYNNWPPGIT	+	+	/	/
VB132	3-23	3-22	2	3	15	TYYYDMSG	TYYYDSSG	κ 1-5	4	9	QHYSYPLT	QQYNSYPLT	+	+	/	/
VB148	3-33	6-19	2	2	9	GRINSSGWYLARWYFDL	GRINSSGWYLARWYFDL	κ 1-16	5	10	LQYNSYPPT	QQYNSYPPT	+	+	+	+
VB161	4-61	3-22	2	5	35	GSYSDFSSGRSTDNNWFDP	GSYYDFSSGRSTDNNWFDP	κ 3-11	2	11	QHRSDWPPMFT	QQRSNWPPMYT	/	/	/	/
HW154	3-53	/	/	4	13	DPGDLDLDF	DPGDLDLDF	κ 3-15	5	13	QQYNNWPPIT	QQYNNWPPIT	/	/	/	/
HW156	3-7	/	/	4	18	RVEPTVKSFYD	RVEPTVKSFYD	κ 3-15	5	10	QQYNNWPPIT	QQYNNWPPIT	/	/	/	/
HW168	4-39	3-19	3	6	20	HRMMLTGGVLDYYYYGMDI	HRMITFGGVLDYYYYGMDV	κ 3-15	3	7	QQYNNWPPFT	QQYNNWPPFT	/	/	+	+
HW169	1-18	2-15	2	4	17	ACSGGSCYSELPDY	ACSGGSCYSELPDY	κ 3-15	2	1	QQYNNWPPYT	QQYNNWPPYT	/	/	/	/
HW175	1-18	3-10	3	4	20	HLVRGVINRSFDS	HLVRGVINRYFDS	κ 3-20	1	10	QQYGTSPWT	QQYGSSPWT	+	+	/	/
HW181	1-46	/	/	4	27	DNGKWAFDY	DNGKWAFDY	λ 2-14	3	8	CSFTRSDAWV	SSYTSSTWV	/	/	/	/
HW182	4-39	/	/	4	13	PGTTWPHYFDY	PGTTWPHYFDY	λ 2-14	2	8	SSYTSSSV	SSYTSSTV	/	/	/	/
HW221	3-74	/	/	5	14	GWAATYYPF	GWAATYYPF	κ 3-20	4	3	QQYGSPLT	QQYGSPLT	+	+	+	+
HW224	3-15	/	/	3	28	GWKGSFDM	GWKGSFDV	κ 4-1	2	13	QQYSTPYT	QQYSTPYT	/	/	/	/
HW230	3-7	5-12	2	1	8	DSEYSSSWYNRFH	DSEYSSSWYNRFH	κ 3-15	4	6	QQYNDWPLT	QQYNNWPLT	/	/	/	/
HW237	3-48	2-15	2	5	14	LLGYCSGGSCP	LLGYCSGGSCP	λ 1-47	2	1	AAWDDSLSGPVV	AAWDDSLSGPVV	/	+	/	/
HW378	1-46	3-22	2	4	15	SYYYDSSRGIDF	SYYYDSSRGIDY	κ 1-27	1	6	QKCNFAPWT	QKYNFAPWT	/	+	/	/

*, polymorphic alleles; reverted amino acids in CDR3s are in bold; RF, reading frame; V-Mut., number of mutations within V region; ND, not determined; +, reactive in ELISA; /, nonreactive in ELISA; poly, polyreactive to ss/dsDNA, LPS, and insulin; HEp2, reactive in HEp2 ELISA and/or IFA