

Table 6. Conservancy analysis of antibody linear epitope sequences

No.	Sequence	Influenza Source Subtype	Source Protein	Antibody Type(s)	Host Species	H1N1							H3N2							H5N1				
						A/Brewig Mission/1/18	A/New Caledonia/2099	A/PR/8/34	A/Taiwan/1/86	A/Texas/3691	A/USSR/90/77	A/WSN/03	A/Bangkok/1/79	A/Beijing/553/89	A/England/42/72	A/Hong Kong/1/68	A/Leningrad/360/86	A/New York/52/04	A/Panama/2007/99	A/UDORN/307/72	A/Hong Kong/1/56/97	A/Viet Nam/1/194/2004		
1	AIYHTENAYVSVSSHYNR		HA	MONOCLONAL		58	89	74	100	95	79	63	32	32	32	32	32	32	32	32	32	32	32	32
2	AMEQAGMSSEQAEEAVASQARQMVQA MRTIGTHPSSS	H1N1	M1	MONOCLONAL	MOUSE	100	97	100	97	97	97	95	97	95	97	97	97	95	95	97	100	92	92	92
3	CKRGDPSGFFSRNLNWL	H3N2	HA	POLYCLONAL	RABBIT	35	35	35	35	35	35	35	82	71	94	88	76	65	65	100	35	35	35	35
4	CKRGDPSGFFSRNLNWLKSGSTYPVQVNT MPNNDNS	H3N2	HA	POLYCLONAL	RABBIT	36	28	25	28	31	28	33	75	61	89	89	64	56	56	94	31	33	33	33
5	CLGHHAVPNGTLVKITINDQIEVTNATELVQ SSSTGKIC	H3N2	HA	POLYCLONAL	RABBIT	33	33	33	33	33	33	33	97	97	100	97	97	95	95	100	33	33	33	33
6	CNNPHRIL	H3N2	HA	POLYCLONAL	RABBIT	38	38	38	38	38	50	38	75	75	100	100	75	63	63	100	38	50	38	38
7	CNNPHRILDGINC	H3N2	HA	POLYCLONAL	RABBIT	38	38	31	38	38	38	38	77	77	85	92	77	69	69	92	38	38	38	38
8	CNNPHRILDGINCIDLALDGPDCGFQNE KWLD	H3N2	HA	POLYCLONAL	RABBIT	23	23	23	23	23	20	26	91	86	89	91	91	83	83	94	31	29	29	29
9	CPKYVKQNTLKLATGMRNVPEKQT	H3N2	HA	MONOCLONAL: POLYCLONAL	MOUSE;RABBIT	54	50	50	50	50	50	50	100	96	100	100	96	96	96	100	63	63	63	63
10	CPKYVKQNTLKLATGMRNVPEKQTR	H3N2	HA	POLYCLONAL	RABBIT	56	52	52	52	52	52	52	100	96	100	100	96	96	96	100	64	64	64	64
11	DCTLDLALDGDPH	H3N2	HA	POLYCLONAL	MOUSE	38	38	38	38	38	38	38	92	92	100	100	92	85	92	100	46	46	46	46
12	DPNNMDKAVLYRKLKREITFHGAKEIALSY	H1N1	M1	MONOCLONAL		94	97	97	97	97	97	100	97	97	97	97	97	94	100	97	87	90	90	
13	DVPDYAS	H3N2	HA	MONOCLONAL	MOUSE	43	43	43	43	43	43	43	100	100	88	100	100	100	100	100	43	43	43	43
14	DVPDYASL	H3N2	HA	MONOCLONAL	MOUSE	50	50	50	50	50	50	50	100	100	88	100	100	100	100	100	50	50	50	50
15	EGSYFKLKNYSYENK	H1N1	HA	MONOCLONAL	MOUSE	57	50	89	57	50	57	64	43	43	43	43	43	43	43	43	43	43	43	43
16	EGSYFKLKNYSYENK	H1N1	HA	MONOCLONAL	MOUSE	64	57	100	64	57	64	71	36	43	36	36	43	43	36	43	43	43	43	43
17	EKQT	H3N2	HA	POLYCLONAL	MOUSE	75	57	75	75	75	75	75	100	100	100	100	100	100	100	100	75	75	75	75
18	ETPIRNEWGCR	H3N2	M2	POLYCLONAL	RABBIT	91	92	100	92	92	100	100	92	92	100	100	82	100	82	92	73	82	82	
19	EVETPIR	H1N1	M2	MONOCLONAL	MOUSE	38	63	100	63	63	100	100	63	63	100	63	100	63	63	63	75	85	85	
20	FONEKWDL	H3N2	HA	MONOCLONAL	MOUSE	38	50	50	50	50	38	38	100	75	75	88	100	88	75	88	38	38	38	38
21	GFFSRNLNWLTKS	H3N2	HA	POLYCLONAL	RABBIT	50	42	42	42	42	42	50	75	75	83	100	75	75	67	92	42	42	42	42
22	GKICNNPHRILDGICDLTLD	H3N2	HA	MONOCLONAL	MOUSE	30	30	30	30	30	30	30	75	75	95	100	75	70	70	100	30	30	30	30
23	GKVTVTKRSQQTIPNVGSRPWRGL	H3N2	HA	POLYCLONAL	RABBIT	26	26	30	30	30	30	30	93	89	89	85	85	74	81	93	30	26	26	26
24	GLFGAIGFIE	H1N1	HA	MONOCLONAL: POLYCLONAL	GOAT;MOUSE;RABBIT	100	100	100	100	100	100	100	91	91	82	100	91	91	91	100	100	100	100	100
25	GLFGAIGFIEGNGWEGMIDGWYFRHONS ETGGA	H3N2	HA	MONOCLONAL	MOUSE	77	74	77	77	77	77	77	94	94	23	100	94	94	94	100	66	71	71	71
26	GLIYNRMGAVTTEVAFGLVCATCEIQADSQ HRSHRQ	H1N1	M1	MONOCLONAL	MOUSE	97	92	100	92	92	94	100	100	100	100	100	100	100	100	100	92	97	97	97
27	GVTONGSSACKRGDPSGFFSR	H3N2	HA	POLYCLONAL	RABBIT	32	32	27	32	32	32	32	77	64	91	91	68	73	68	95	36	36	36	36
28	HCDGFQNEKWDL	H3N2	HA	MONOCLONAL	MOUSE	33	33	42	33	33	33	33	100	83	83	83	100	83	83	92	33	33	33	33
29	HCDGFQNEKWDL	H3N2	HA	POLYCLONAL	RABBIT	33	33	33	33	33	33	33	100	97	97	97	93	97	97	93	33	33	33	33
30	HCDGFQNEKWDLWLFVRSKAFSNCPYDVP DYASLRS	H3N2	HA	MONOCLONAL: POLYCLONAL	MOUSE;RABBIT	25	22	25	25	25	25	25	100	92	92	94	97	92	92	97	25	25	25	25
31	HHPTDSDQTRLY	H3N2	HA	POLYCLONAL	RABBIT	62	54	46	46	46	46	46	69	69	62	62	77	69	69	54	54	54	54	54
32	HHPTDQKEQTNLY	H3N2	HA	POLYCLONAL	RABBIT	54	46	46	46	46	46	62	92	85	69	77	85	62	85	62	62	62	62	62
33	KAYSNCYPYDVPDY	H3N2	HA	POLYCLONAL	RABBIT	43	36	43	36	36	36	43	93	100	93	93	93	100	93	43	43	43	43	43
34	KWDLFVRSK	H3N2	HA	MONOCLONAL	MOUSE	50	50	50	50	50	50	50	100	90	90	90	90	100	90	50	50	50	50	50
35	LKLT	H3N2	HA	MONOCLONAL: POLYCLONAL	MOUSE	60	60	60	60	60	60	60	100	100	100	100	100	100	100	100	80	80	80	80
36	LKTRPILSPLTKGLGFVFTLTPSERGLQR RFVQNALNGND	H1N1	M1	MONOCLONAL	MOUSE	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
37	MRNVPEKQT	H3N2	HA	POLYCLONAL	MOUSE	44	44	44	44	44	44	44	100	100	100	100	100	100	100	100	56	44	44	44
38	MSLLTEVETPIRNEWGCRNDSSD	H1N1	M2	MONOCLONAL	MOUSE	98	63	96	63	63	100	100	63	63	100	100	63	96	63	63	79	88	88	
39	MSLLTEVETPIRNEWGCRNDSSD	H1N1	M2	POLYCLONAL	MOUSE	92	58	100	58	58	96	96	58	58	96	96	58	58	67	83	83	83	83	
40	NATELVQSSSTGKICNNPHRILDGINC	H3N2	HA	POLYCLONAL	RABBIT	26	26	26	26	26	26	26	85	85	93	96	85	81	81	96	26	26	26	26
41	NEWGCRNDSSD	H3N2	M2	POLYCLONAL	RABBIT	100	100	92	100	100	100	100	100	100	100	100	100	100	100	100	83	83	83	83
42	NSDKLYWGVHHPSTDKQNTLY	H3N2	HA	POLYCLONAL	RABBIT	48	43	48	43	43	43	52	91	83	78	83	83	70	87	57	52	52	52	52
43	NPPEKQTRFIEGAIAGFIE	H3N2	HA	MONOCLONAL	MOUSE	74	74	74	74	74	74	74	100	100	100	100	100	100	100	100	57	57	57	57
44	NPPEKQTRFIEGAIAGFIE	H3N2	HA	MONOCLONAL	MOUSE	74	74	74	74	74	74	74	100	100	95	95	100	100	95	58	58	58	58	58
45	QDLPGNDNNSTATLCLGHAVPNGTLVKIT INDQIE	H3N2	HA	POLYCLONAL	RABBIT	33	33	33	33	33	33	33	47	47	53	53	47	47	47	33	33	33	33	33
46	QDLPGNDNNSTATLCLGHAVPNGTLVKIT INDQIE	H3N2	HA	POLYCLONAL	RABBIT	22	22	22	22	22	22	25	78	78	78	75	78	75	78	22	22	22	22	22
47	SKAFSNCYPYDVPDYASL	H3N2	HA	POLYCLONAL	MOUSE;RABBIT	39	33	39	33	33	33	39	100	94	94	100	100	94	100	44	39	39	39	39
48	SLLTEVETPIR		M2	POLYCLONAL	RABBIT	91	73	100	73	73	100	100	73	73	100	100	73	100	73	82	91	91	91	
49	SLLTEVETPIRNEWGCRNDSSD	H1N1;H3N2	M2	MONOCLONAL: POLYCLONAL	MOUSE;RHESUS MONKEY	96	65	96	65	65	100	100	65	65	100	100	65	96	65	65	83	87	87	
50	SLLTEVETPIRNEWGCRNDSSD	H1N1	M2	MONOCLONAL	MOUSE	98	67	96	67	67	100	100	67	67	100	100	67	96	67	67	83	88	88	
51	TONGSSACKRGDPS	H3N2	HA	POLYCLONAL	RABBIT	33	33	33	33	33	33	33	73	53	93	87	60	67	60	93	40	40	40	40
52	VERSKAFSNCYPYDVPDYASLRS	H3N2	HA	MONOCLONAL	MOUSE	35	30	35	30	30	30	35	100	96	96	100	96	96	100	35	30	30	30	30
53	VTGLRNPISQSRGLFGAIGFIE	H1N1	HA	POLYCLONAL	MOUSE	92	100	100	100	100	100	92	54	54	54	54	54	54	54	54	54	54	54	54
54	VTGLRNPISQSRGLFGAIGFIE	H1N1	HA	MONOCLONAL	MOUSE	96	100	100	100	100	100	96	68	68	64	72	68	68	68	72	52	52	52	52
55	WTGVAQD	H3N2	HA	POLYCLONAL	RABBIT	43	43	43	43	43	43	43	71	86	71	71	71	71	86	71	43	43	43	43
56	WTGVTQN	H3N2	HA	POLYCLONAL	MOUSE	43	43	43	43	43	43	43	86	71	100	86	100	86	100	43	43	43	43	43
57	YDVPDYAS	H3N2	HA	MONOCLONAL	MOUSE	38	50	50	50	50	50	50	100	100	88	100	100	100	100	100	50	50	50	50
58	YPYDVPDYA	H3N2	HA	MONOCLONAL	MOUSE	58	44	58	44	44	44	58	100	100	100	100	100	100	100	100	44	58	58	58