

Antigens	Parameters	Patients					
		A <sup>a</sup>	B	C	D	E	F
VP1	$t_{VP1}$	0.00	13.4	0.00	$7.05 \cdot 10^{-1}$	0.00	0.00
		$3.49 \cdot 10^2$					
	$r_{VP1}$	$8.06 \cdot 10^{-2}$	$3.19 \cdot 10^{-2}$	$2.74 \cdot 10^{-2}$	$1.18 \cdot 10^{-1}$	$7.94 \cdot 10^{-2}$	$3.03 \cdot 10^{-1}$
		$1.48 \cdot 10^{-1}$					
	$max_{antiVP1}$	79.0	$1.86 \cdot 10^2$	$1.47 \cdot 10^2$	$1.50 \cdot 10^2$	$2.70 \cdot 10^2$	$5.02 \cdot 10^2$
		$2.58 \cdot 10^2$					
	$dec_{VP1}$	0.00	0.00	0.00	0.00	0.00	$5.76 \cdot 10^{-3}$
		$2.62 \cdot 10^{-4}$					
VP2	$t_{VP2}$	0.00	0.00	0.00	$1.17 \cdot 10^{-1}$	22.7	0.00
		$3.14 \cdot 10^2$					
	$r_{VP2}$	$9.05 \cdot 10^{-2}$	$5.73 \cdot 10^{-2}$	$2.28 \cdot 10^{-2}$	$1.01 \cdot 10^{-1}$	$5.89 \cdot 10^{-1}$	$2.89 \cdot 10^{-1}$
		$1.18 \cdot 10^{-1}$					
	$max_{antiVP2}$	51.6	$1.28 \cdot 10^2$	$1.05 \cdot 10^2$	71.4	$1.65 \cdot 10^2$	$4.44 \cdot 10^2$
		$1.73 \cdot 10^2$					
	$dec_{VP2}$	0.00	$1.15 \cdot 10^{-5}$	0.00	$8.69 \cdot 10^{-4}$	0.00	$5.32 \cdot 10^{-3}$
		$2.04 \cdot 10^{-4}$					
VP3	$t_{VP3}$	0.00	$2.71 \cdot 10^{-2}$	0.00	$4.38 \cdot 10^{-1}$	26.7	0.00
		$3.17 \cdot 10^2$					
	$r_{VP3}$	$8.48 \cdot 10^{-2}$	$5.69 \cdot 10^{-2}$	$1.31 \cdot 10^{-2}$	$1.55 \cdot 10^{-2}$	$1.27 \cdot 10^2$	$3.16 \cdot 10^{-1}$
		$1.21 \cdot 10^{-1}$					
	$max_{antiVP3}$	68.8	$1.43 \cdot 10^2$	$1.25 \cdot 10^2$	$6.30 \cdot 10^4$	$1.65 \cdot 10^2$	$5.02 \cdot 10^2$

		$2.88 \cdot 10^2$					
	$dec_{VP3}$	0.00	$7.52 \cdot 10^{-10}$	0.00	$1.70 \cdot 10^{-6}$	$2.41 \cdot 10^{-3}$	$5.99 \cdot 10^{-3}$
		$7.56 \cdot 10^{-4}$					
st	$t_{st}$	$3.19 \cdot 10^2$	$1.85 \cdot 10^2$	-	57.0	28.0	0.00
	$r_{st}$	$1.34 \cdot 10^{-1}$	$8.36 \cdot 10^{-1}$	-	1.25	$1.06 \cdot 10^{-1}$	$6.16 \cdot 10^{-1}$
	$max_{antist}$	$2.01 \cdot 10^2$	$1.66 \cdot 10^2$	-	$1.29 \cdot 10^2$	$2.95 \cdot 10^2$	$4.19 \cdot 10^2$
	$dec_{st}$	$7.60 \cdot 10^{-6}$	$1.22 \cdot 10^{-4}$	-	$1.84 \cdot 10^{-5}$	0.00	$5.80 \cdot 10^{-3}$
LT	$t_{LT}$	$3.27 \cdot 10^2$	$1.81 \cdot 10^2$	-	44.6	1.13	0.00
	$r_{LT}$	$1.66 \cdot 10^{-1}$	$1.18 \cdot 10^{-1}$	-	1.17	$9.63 \cdot 10^{-2}$	1.66
	$max_{antiLT}$	$1.70 \cdot 10^2$	$2.02 \cdot 10^2$	-	$1.55 \cdot 10^2$	$4.30 \cdot 10^2$	$1.69 \cdot 10^2$
	$dec_{LT}$	$1.00 \cdot 10^{-6}$	$1.08 \cdot 10^{-5}$	-	$3.82 \cdot 10^{-3}$	$6.53 \cdot 10^{-3}$	$3.46 \cdot 10^{-3}$
<b><math>f</math></b>	<b>Obj. Function</b>	<b><math>4.16 \cdot 10^{-2}</math></b>	<b><math>3.99 \cdot 10^{-1}</math></b>	<b><math>8.21 \cdot 10^{-1}</math></b>	<b><math>3.84 \cdot 10^{-2}</math></b>	<b><math>8.30 \cdot 10^{-3}</math></b>	<b><math>3.70 \cdot 10^{-3}</math></b>

Results of the fitting for the immune response model in Eq. 1 for all six patients and five antigens. The last row indicates the achieved value of the objective function (Eq. 2).

<sup>a</sup>For Patient A, the response against the VP antigens was described using a second activation time  $t_{a2}$  with a second parameter set to achieve a better fit.