Appendix 1

Table A1. Estimate and standard error of the explanation variables in the minimum adequate model (M8) of the binary logistic regression. and Likelihood ratio test (LRT) of the minimum adequate model (M1) of the binary logistic regression. LP: Lymphocyte proliferation percent. Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Variable	Estimate	SE	df	LRT	p-value
Intercept	−1.2400	0.4835			
LP	1.3195	0.4312	1	100.173	$<2.2 \times 10^{-16}$ ***
Wild (yes)	−3.9456	1.8040	1	11.895	0.0005629 ***

Estimate and standard error of the explanation variables in the minimum adequate model (M8) of the binary logistic regression. and Likelihood ratio test (LRT) of the minimum adequate model (M1) of the binary logistic regression. Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1. IgG: Immunoglobulin G titer.

Variable	Estimate	SE	df	LRT	p-value
Intercept	$−1.210 \times 10^{+00}$	2.400×10^{-01}			
IgG	8.238×10^{-06}	2.054×10^{-06}	1	62.961	2.108×10^{-15} ***

Estimated regression parameters, standard errors, t-values and p-values for the linear model represented in Eq. 1. LP (lymphocyte proliferation). Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Variable	Estimate	SE	df	LRT	p-value
Intercept	−1.975884	0.589402			
IVN	0.056148	0.008584	1	80.231	$<2 \times 10^{-16}$ ***
Wild (yes)	−1.368166	0.621882	1	5.569	0.01829 *

Estimated regression parameters, standard errors, t-values and p-values for the linear model represented in Eq. 1. IgG (IgG titers in plasma). Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Variable	Estimate	SE	t-value	p-value
Intercept	2.817	3.667	0.768	0.44660
Route	–6.294	3.977	–1.582	0.00183 **
Adjuvant	13.214	3.977	3.322	0.12087

Estimated regression parameters, standard errors, t-values and p-values for the linear model represented in equ (1). IgG (IgG titers in plasma). Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Variable	Estimate	SE	t-value	p-value
Intercept	72.989	8.381	8.709	2.35×10^{-12} ***
Antigen	2.544	1.355	1.878	0.0651
Route	14.231	8.127	1.751	0.0849

Estimated regression parameters, standard errors, t-values and p-values for the linear model represented in equ (1). IVN (In vitro neutralization). Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

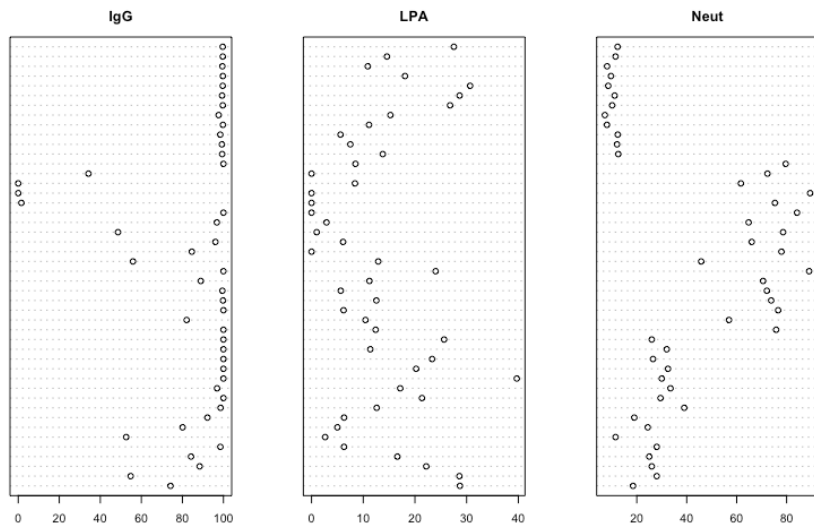| Variable	Estimate	SE	t-value	p-value
Intercept	89.985	9.717	9.261	1.99×10^{-13} ***
Antigen	–6.447	2.124	–3.035	0.003476 **
Adjuvant	24.380	6.027	4.045	0.000143 ***
Route	–37.262	9.340	–3.990	0.000173 ***

Figure A1. We used Cleveland dotplots (Fig. A1) to check for outliers (see figure below). We did not find any outliers for the explanatory variables. .
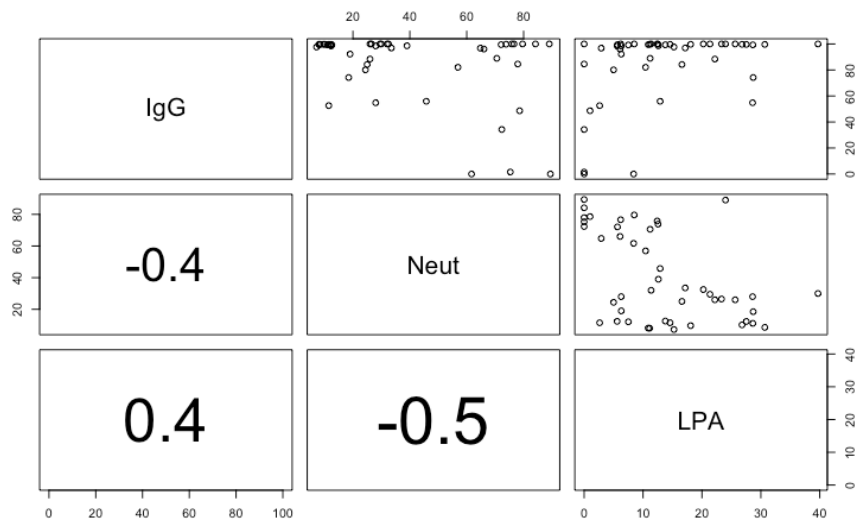

Figure A2. For the collinearity tests we used scatterplot correlations we did not find any collinearity between our explanatory variables.