**Supplementary Table 1. Determinations of the best dilutions of the mouse serum, antigen and secondary antibody in the rTcUBQ-2-based ELISA.**

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| --- | --- | --- |
| **Dilution of sera** | **OD450** | **Dilution of rTcUBQ2** |
| 1:40 | 1:80 | 1:160 | 1:320 | 1:640 | 1:1280 |
| **1:40** | P | 1.117 | 0.961 | 0.546 | 0.313 | 0.249 | 0.251 |
| N | 0.468 | 0.409 | 0.228 | 0.220 | 0.187 | 0.171 |
| P/N | 2.387 | 2.350 | 2.395 | 1.423 | 1.332 | 1.468 |
| **1:80** | P | 0.963 | 0.843 | 0.407 | 0.268 | 0.217 | 0.211 |
| N | 0.347 | 0.342 | 0.210 | 0.258 | 0.222 | 0.219 |
| P/N | **2.775** | 2.465 | 1.938 | 1.039 | 0.977 | 0.963 |
| **1:160** | P | 0.753 | 0.673 | 0.530 | 0.381 | 0.323 | 0.317 |
| N | 0.387 | 0.309 | 0.219 | 0.182 | 0.167 | 0.172 |
| P/N | 1.992 | 2.180 | 2.420 | 2.093 | 1.934 | 1.843 |
| **1:320** | P | 0.616 | 0.642 | 0.379 | 0.389 | 0.352 | 0.330 |
| N | 0.306 | 0.296 | 0.242 | 0.261 | 0.230 | 0.233 |
| P/N | 2.013 | 2.169 | 1.566 | 1.490 | 1.530 | 1.416 |
| **1:640** | P | 0.447 | 0.407 | 0.287 | 0.245 | 0.208 | 0.257 |
| N | 0.262 | 0.243 | 0.225 | 0.169 | 0.196 | 0.143 |
| P/N | 1.706 | 1.675 | 1.276 | 1.250 | 1.061 | 1.797 |
| **1:1280** | P | 0.313 | 0.245 | 0.224 | 0.210 | 0.188 | 0.309 |
| N | 0.181 | 0.194 | 0.170 | 0.160 | 0.174 | 0.196 |
| P/N | 1.729 | 1.263 | 1.318 | 1.312 | 1.080 | 1.577 |
| **Dilution of the secondary antibody** | **P** | **N** | **P/N** | **Mean P/N** |
| **1:5000** | 0.669 | 0.237 | 2.823 | **2.788** |
| 0.660 | 0.227 | 2.907 |
| 0.645 | 0.245 | 2.633 |
| **1:10000** | 0.408 | 0.178 | 2.292 | 2.175 |
| 0.395 | 0.203 | 1.946 |
| 0.462 | 0.202 | 2.287 |
| **1:15000** | 0.188 | 0.116 | 1.621 | 1.663 |
| 0.202 | 0.114 | 1.772 |
| 0.201 | 0.126 | 1.595 |

Note: P represents positive sera and N represents negative sera.