Table S1. *Results of the three serological assays for each individual animal with positive or equivocal reactivity in at least one of the tests*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Family** | **Species** | | **Individual No.** (sex) | **Zoo No. in Germany** | **Origin of birth** | **Age in years at time of sample collection** | **Total number of inhabited zoos\*\*** | **Axiom**® **HEV-Ab EIA** | **Cut-off ratio Axiom**® | **Mikrogen**® ***recom*Well HEV IgG** | **Cut-off ratio Mikrogen**® **IgG** | **Mikrogen**® ***recom*Well HEV IgM** | **Cut-off ratio Mikrogen**® **IgM** |
| Hominidae | Gorilla | *Gorilla gorilla gorilla* | 1 (m.)  2 (f.)  3 (m.)  \*4 (f.)  5 (m.)  6 (f.)  7 (f.) | A  B  F  H  H  H  H | wild  zoo  zoo  wild  zoo  zoo  wild | 35  12  19  49  22  19  42 | 3  4  3  1  1  1  1 | **1.182**  **0.198**  **OVER**  **0.605**  0.059  0.059  0.055 | 0.166  0.166  0.166  0.180  0.180  0.180  0.180 | **1.024**  **0.486**  **1.583**  0.043  **0.482**  0.259  0.279 | 0.386  0.386  0.386  0.254  0.254  0.254  0.254 | 0.034  0.055  0.048  0.031  0.051  0.026  0.037 | 0.267  0.267  0.267  0.195  0.195  0.195  0.195 |
| Bonobo | *Pan paniscus* | 8 (f.) | H | zoo | 15 | 2 | **0.328** | 0.180 | 0.036 | 0.254 | 0.040 | 0.195 |
| Hylobatidae | Lar gibbon | *Hylobates lar* | 9 (f.) | G | zoo | unknown | unknown | **0.292** | 0.153 | 0.040 | 0.656 | 0.045 | 0.537 |
| Cercopithecidae | Drill | *Mandrillus leucophaeus* | 10 (f.) | H | zoo | 23 | 2 | **0.125** | 0.180 | 0.019 | 0.254 | 0.060 | 0.195 |

*Results printed* ***in bold*** *are positive results; results underlined are equivocal results; f., female; m., male; No. \*4 (f.), is mother of No. 6*

*\*\* Total number of zoos where the animal had lived since birth / arrival from the wild. All zoos were within Europe. Number includes the zoo in Germany where the investigated sample was collected*

Table S2. *Results of the serological investigations in non-human primates from nine German zoos.*

|  |  |  | Number of positive or equivocal reactive individuals in at least one assay / total number of individuals investigated | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Family** | **Species** |  | Zoo A | Zoo B | Zoo C | Zoo D | Zoo E | Zoo F | Zoo G | Zoo H | Zoo I | Total in all zoos  (%) |
| Hominidae | Gorilla | *Gorilla gorilla gorilla* | **1/3** | **1/3** | - | 0/4 | - | 1/4 | - | **4/32** | - | **7/46 (15.2%)** |
|  | Bonobo | *Pan paniscus* | - | - | - | - | - | - | - | **1/25** | - | **1/25 (4.0%)** |
|  | Chimpanzee | *Pan troglodytes* | - | 0/3 | 0/5 | 0/4 | 0/3 | 0/11 | 0/7 | 0/17 | 0/20 | 0/70 (0.0%) |
|  | Sumatran orangutan | *Pongo abelii* | 0/4 | 0/2 | - | - | - | 0/4 | 0/1 | 0/5 | - | 0/20 (0.0%) |
| Bornean orangutan | *Pongo pygmaeus* | 0/2 | - | - | 0/2 | - | - | - | - | - |
| Hylobatidae | Lar gibbon | *Hylobates lar* | - | - | - | - | 0/5 | - | **1/1** | 0/5 | - | **1/11 (9.1%)** |
| Cercopithecidae | Drill | *Mandrillus leucophaeus* | - | - | - | - | - | - | 0/4 | **1/3** | - | **1/7 (14.3%)** |
|  | Gelada baboon | Theropithecus gelada | - | - | - | - | - | - | - | 0/61 | - | 0/61 (0.0%) |
|  | Javan silvered leaf monkey | Trachypithecus auratus | - | - | - | - | - | - | - | 0/6 | - | 0/6 (0.0%) |
|  | Japanese macaques | *Macaca fuscata* | - | - | - | - | - | - | - | 0/2 | - | 0/2 (0.0%) |
|  | White-crowned mangabey | Cercocebus atys lunulatus | - | - | - | - | - | - | 0/1 | - | - | 0/1 (0.0%) |
| Atelidae | Black howler monkey | *Alouatta caraya* | - | - | - | - | - | - | - | 0/3 | - | 0/3 (0.0%) |
|  | White-fronted spider monkey | Ateles hybridus | - | - | - | - | - | - | - | 0/4 | - | 0/4 (0.0%) |
| Cebidae | Black-capped squirrel monkey | *Saimiri boliviensis* | - | - | - | - | - | - | - | 0/1 | - | 0/1 (0.0%) |
| Pitheciidae | White-faced saki | Pithecia pithecia | - | - | - | - | - | - | - | 0/2 | - | 0/2 (0.0%) |
| Total per zoo  (%) |  |  | **1/9  (11.1%)** | **1/8 (12.5%)** | 0/5  (0.0%) | 0/10  (0.0%) | 0/8  (0.0%) | **1/19 (5.3%)** | **1/14  (7.1%)** | **6/166  (3.6%)** | 0/20  (0.0%) | **10/259 (3.9%)** |

Table S3. *Results of the Axiom HEV-Ab EIA in four dilution steps for each individual animal with positive or equivocal reactivity in at least one of the tests*

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Family** | **Species** | | **Individual No.** (sex) | **Axiom**®  **1:1** | **Axiom**®  **1:1**  **Cut-off ratio** | **Axiom**®  **1:10** | **Axiom**®  **1:50** | **Axiom**®  **1:250** | **Axiom**®  **1:1250** | **Axiom**®  **all dilutions**  **Cut-off ratio** |
| Hominidae | Gorilla | *Gorilla gorilla gorilla* | 1 (m.)  2 (f.)  3 (m.)  4 (f.)  5 (m.)  6 (f.)  7 (f.) | **1.182**  **0.198**  **OVER**  **0.605**  0.059  0.059  0.055 | 0.166  0.166  0.166  0.180  0.180  0.180  0.180 | 0.125  0.054  **0.424**  0.066  0.051  0.049  0.048 | 0.078  0.050  **0.225**  0.051  0.054  0.051  0.048 | 0.068  0.050  0.118  0.054  0.046  0.051  0.052 | 0.058  0.055  0.067  0.048  0.050  0.055  0.050 | 0.178  0.178  0.178  0.178  0.178  0.178  0.178 |
| Bonobo | *Pan paniscus* | 8 (f.) | **0.328** | 0.180 | 0.054 | 0.045 | 0.049 | 0.049 | 0.269 |

*Results printed* ***in bold*** *are positive results; f., female; m., male*