**Supplementary files 1**

**Supplementary files 1a. Immunoprecipitation-mass spectrometry (IP-MS) analysis.**

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| Accession | -10lgP | Avg. Mass |
| P0DMV8|HS71A\_HUMAN | 351 | 70052 |
| P11142|HSP7C\_HUMAN | 337.68 | 70898 |
| P10809|CH60\_HUMAN | 272.28 | 61055 |
| P34931|HS71L\_HUMAN | 261.48 | 70375 |
| P08238|HS90B\_HUMAN | 256.83 | 83264 |
| P34932|HSP74\_HUMAN | 202.19 | 94331 |
| P07900|HS90A\_HUMAN | 198.58 | 84660 |
| O95757|HS74L\_HUMAN | 146.39 | 94512 |
| Q92598|HS105\_HUMAN | 134.36 | 96865 |
| P04792|HSPB1\_HUMAN | 129.61 | 22783 |
| P62136|PP1A\_HUMAN | 186.52 | 37512 |

**Supplementary files 1b. Baseline information for the experimental macaques in this study.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Number** | **Age (y)** | **Gender** | **Viral Load** **(Log10 copies/mL)** | **CD4(count/mL)**  | **Body Weight（kg）** |
| #1 | 11 | M | 5.72  | 83 | 11.25 |
| #2 | 11 | M | 4.05  | 972 | 10.75 |
| #3 | 15 | M | 2.98  | 1819 | 9.10 |
| #4 | 19 | M | 4.35  | 835 | 9.25 |
| #5 | 11 | M | 5.57  | 238 | 14.3 |
| #6 | 11 | M | 3.24  | 599 | 9.60 |
| #7 | 11 | M | 5.99  | 1181 | 6.85 |
| #8 | 18 | F | 4.18  | 767 | 5.65 |
| #9 | 10 | F | 3.82  | 721 | 7.40 |

Note: y: years old; M: male; F: female.

Supplementary files 1c. Antibodies for the ICS assay in this study.

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| **Classification** | **Antibodies** |
| Mice experiment | Mouse CD3-FITC |
| Mouse CD4-BB700 |
| Mouse CD8-PECY7 |
| Mouse IFN-γ-APC |
| Mouse TNF-α-PE |
| Mouse IL-2-Violet605 |
| Mouse CD44-Ko525 |
| Mouse CD62L-BV786 |
| Mouse CD107a-BV510 |
| Mouse CD49b-PE |
| Monkey experiment | Hu/NHP CD4 FITC L200 |
| Hu/NHP CD3 APC SP34-2 |
| NHP CD45 PE D058-1283 |
| CD8 Percp SK1 |
| NHP CD3 BV650 SP34-2 |
| Hu/NHP CD4 PE-CF594 L200 |
| Hu/NHP CD8 APC-Cy7 RPA-T8 |
| Hu/NHP IL-2 APC MQ1-17H12 |
| Hu/NHP IFN-γ PE 4S.B3 |
| Hu/NHP TNF PE-Cy7 MAb11 |

**Supplementary files 1d. The sequences of primers.**

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| **Primers** | **Sequences** |
| Tat-F | ATGGAGCCAGTAGATCCTAG |
| Tat-R | TGCTTTGATAGAGAAGCTTG |
| LTR-F | GCCTCAATAAAGCTTGCCTTGA |
| LTR-R | TCCACACTGACTAAAAGGGTCTGA |
| Gag-F | GTCCAGAATGCGAACCCAGA |
| Gag-R | GTTACGTGCTGGCTCATTGC |
| Vpr-F | CCACAAAGGGAGCCATACAATG |
| Vpr-R | TTATGGCTTCCACTCCTGCC |
| Vif-F | CACACAAGTAGACCCTGACCT |
| Vif-R | CCCTACCTTGTTATGTCCTGCT |
| HSF1-F | CCACCTCCACCCCTGAAAAG |
| HSF1-R | GCACCAGCTGCTTCCCTGA |
| β-actin-F | TCACCAACTGGGACGAC |
| β-actin-R | TGTCACGCACGATTTCC |
| SYBR S mac-g238 S | AATACTGTCTGCGTCATCTGG |
| SYBR S mac-g382A | ATGGTGCTGTTGGTCTACTTG |
| tHSV-F | TGCTTGCCTGTCAAACTCTAC |
| tHSV-R | CCTCGGGTGTAACGTTAGAC |
| Ad-F | GAGTTGGCACCCCTATTCGA |
| Ad-R | GTTGCTGTGGTCGTTCTGGT |
| VVtk-F | ATAGATACGGAACGGGACT |
| VV-tk-R | TTGCCATACGCTCACAG |