| Pathways                                | CD4+(Goat) | CD4+(Sheep) | CD8+(Goat) | CD8+(Sheep) | CD14+(Goat) | CD14+(Sheep) | CD21+(Goat) | CD21+(Sheep) | CD35+(Goat) | CD35+(Sheep) |
|-----------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Fc epsilon RI signaling pathway         | 1.31911082 | 1.48481863 | 1.13299466 | 1.35901397 | 1.83384651 | 1.93479549 | 3.841598444 | 1.351409377 |           |            |
| Chemokine signaling pathway             | 2.64451400 | 2.29127302 | 2.9053782  | 3.09240716 | 6.78087048 | 1.76320139 | 4.530301683 | 3.0123277   |           |            |
| Toll-like receptor signaling pathway     | 3.07682439 | 2.31947531 | 2.79801961 | 2.03402007 | 6.73870311 | 2.76807048 | 1.472601436 | 8.321907617 |           |            |
| TNF signaling pathway                   | 3.1691467  | 1.74804954 | 1.93386203 | 1.76807048 | 1.93719529 | 1.52203831 | 2.056910889 | 1.29170672  |           |            |
| Fc gamma R-mediated phagocytosis        | 3.51701287 | 1.59279155 | 1.35140937 | 3.46901394 | 5.29421929 | 4.23601994 | 6.504155544 | 1.86244847  |           |            |
| NF-kappa B Baisignaling pathway         | 4.29905412 |           |            |            |           |            |            |            |           |            |
| NOD-like receptor signaling pathway     | 4.31895257 | 4.67128140 | 2.04933335 | 3.42254013 | 6.38770311 | 2.76807048 | 1.472601436 | 8.321907617 |           |            |
| C-type lectin receptor signaling pathway | 6.11977532 | 4.39296928 | 2.79801961 | 6.73870311 | 7.61167109 | 7.3656548  |            |            |           |            |
| T cell receptor signaling pathway       | 6.24215039 | 1.57251622 | 12.01147857|           |            |            |            |            |           |            |
| Th17 cell differentiation               | 7.34646382 | 10.34299042 |           |            |            |            |            |            |           |            |
| Th1 and Th2 cell differentiation        | 8.1955448 | 7.15128066 | 3.16923254 | 6.33497391 | 6.32707807 | 2.75012141 | 7.017782074 | 2.29373857  |           |            |
| NF-kappa B signaling pathway            | 8.1955448 | 9.73730839 | 6.33497391 |           |            |            |            |            |           |            |
| Necroptosis                             | 8.23218034 | 2.23218034 | 1.35675647 | 4.26368835 | 1.93719529 | 1.52203831 | 2.056910889 | 1.29170672  |           |            |
| Antigen processing and presentation    | 1.50435604 | 1.50435604 | 1.35675647 | 4.26368835 | 1.93719529 | 1.52203831 | 2.056910889 | 1.29170672  |           |            |
| Rap1 signaling pathway                  | 2.23218034 | 2.23218034 | 1.35675647 | 4.26368835 | 1.93719529 | 1.52203831 | 2.056910889 | 1.29170672  |           |            |
| MAPK signaling pathway                  | 3.02806813 | 3.53132476 | 1.83289526 |            |            |            |            |            |           |            |
| Phagosome                               | 3.53132476 | 3.53132476 | 1.83289526 |            |            |            |            |            |           |            |
| mTOR signaling pathway                  | 1.50435604 | 1.50435604 | 1.35675647 | 4.26368835 | 1.93719529 | 1.52203831 | 2.056910889 | 1.29170672  |           |            |
| FoxO signaling pathway                  | 1.70842797 | 5.76737667 |            |            |            |            |            |            |           |            |
| B cell receptor signaling pathway       | 5.76737667 |            |            |            |            |            |            |            |           |            |