### Supplementary Table 5. PPD-, ESAT-6-, CFP-10-, and HBHA-induced cytokines (exploratory cohort).

| Host-marker | PPD | ESAT-6 | CFP-10 | HBHA |
|-------------|-----|--------|--------|------|
| **GM-CSF**  |     |        |        |      |
| LTBI        | 5615| 3864   | 0.9253 | 0.5116 |
| aTB         | [1935-6520]| [3625-6474]| [337-4179]| [131-2235]| 0.1369 | 0.6644 | 1138 | 0.8512 | 0.5231 | 273 | 0.9419 | 0.5093 |
| **IFN-γ**   |     |        |        |      |
| LTBI        | 19950| 19979  | 0.4436 | 0.5856 |
| aTB         | [17986-19985]| [19873-19989]| [2772-19981]| [143-16009]| 0.1158 | 0.6736 | 4093 | 0.9583 | 0.5069 | 1303 | 0.2151 | 0.6389 |
| **IL-2**    |     |        |        |      |
| LTBI        | 10  | 10     | 0.5985 | 0.5602 |
| aTB         | [10-16]| [10-10]| [10-10]| [10-10]| 0.3635 | 0.5486 | 10  | 0.0242 | 0.6944 | 10  | 0.4236 | 0.5764 |
| **IL-6**    |     |        |        |      |
| LTBI        | 13020| 15285  | 0.8918 | 0.52 |
| aTB         | [7060-7605]| [7161-3683]| [948-35790]| [140-17865]| 0.2155 | 0.6471 | 785  | 0.6488 | 0.553 | 193  | 0.1706 | 0.6389 |
| **IL-10**   |     |        |        |      |
| LTBI        | 10  | 10     | >0.9999| 0.5 |
| aTB         | [10-10]| [10-10]| [10-10]| [10-10]| >0.9999| 0.5 | 10  | >0.9999| 0.5 | 10  | >0.9999| 0.5 |
| **IL-13**   |     |        |        |      |
| LTBI        | 1200| 574    | 0.341  | 0.6065 |
| aTB         | [540-1764]| [267-1571]| [62-929]| [34-248]| 0.0458 | 0.7176 | 380  | 0.4823 | 0.5787 | 263 | 0.7466 | 0.537 |
| **IL-15**   |     |        |        |      |
| LTBI        | 10  | 10     | >0.9999| 0.5 |
| aTB         | [10-10]| [10-10]| [10-10]| [10-10]| >0.9999| 0.5 | 10  | >0.9999| 0.5 | 10  | >0.9999| 0.5 |
| **IL-17A**  |     |        |        |      |
| LTBI        | 93  | 40     | 0.0298 | 0.7361 |
| aTB         | [540-1764]| [267-1571]| [62-929]| [34-248]| 0.188 | 0.6412 | 41  | 0.3188 | 0.6065 | 28  | 0.0259 | 0.7269 |
|       | [65-167] | [16-99] | [10-94] | [10-39] | [10-70] | [10-46] | [10-63] | [10-25] |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|
| IL-21 | 10       | 10      | 0.4975  | 0.5588  | 10      | 10      | 0.9999  | 0.5     |
|       | [10-10]  | [10-10] |         |         | [10-10] | [10-10] |         |         |
| IL-23 | 25       | 25      | >0.9999 | 0.5     | 25      | 25      | >0.9999 | 0.5278  |
|       | [25-25]  | [25-25] |         |         | [25-25] | [25-25] |         |         |
| IP-10 | 9317     | 7050    | 0.4878  | 0.5787  | 160     | 1375    | 0.1706  | 0.6389  |
|       | [4203-36075] | [870-21400] |         |         | [160-19155] | [160-83306] |         |         |
| MCP-1 | 2980     | 140     | 0.5019  | 0.5718  | 1630    | 140     | 0.4454  | 0.787   |
|       | [140-16175] | [140-14521] |         |         | [140-13855] | [140-13771] |         |         |
| MIG   | 3530     | 7260    | 0.9079  | 0.5139  | 100     | 100     | 0.8704  | 0.5185  |
|       | [100-18978] | [100-19417] |         |         | [100-11891] | [100-6538] |         |         |
| MIP-1α | 23063   | 16313   | 0.4457  | 0.5856  | 27713   | 630     | 0.0298  | 0.7361  |
|       | [7226-40360] | [5410-28543] |         |         | [1646-37860] | [140-17141] |         |         |
| MIP1β  | 2988    | 2278    | 0.6921  | 0.5463  | 2415    | 392     | 0.0306  | 0.7361  |
|        | [1379-4604] | [1036-5662] |         |         | [1290-5915] | [14-2042] |         |         |
| RANTES | 1605    | 1845    | 0.8512  | 0.5231  | 1133    | 245     | 0.0267  | 0.7407  |
|        | [742-4884] | [920-5245] |         |         | [415-4013] | [10-1133] |         |         |
| sCD40L | 325     | 303     | 0.8275  | 0.5255  | 72      | 10      | 0.0744  | 0.6898  |
|        | [216-505] | [106-584] |         |         | [10-273] | [10-85] |         |         |

Notes: The table represents the expression levels of various cytokines and chemokines. The values are given as numbers or ranges, indicating the expression levels or concentrations.
Results of the measured concentrations are reported as medians and 25\textsuperscript{th} – 75\textsuperscript{th} percentiles in children with a latent TB infection (LTBI) and those with active tuberculosis (aTB). The degrees of significance of the differences between the concentrations measured in the two groups of children are reported as \( p \) values. The diagnostic ability of each cytokine was assessed by receiver operator characteristics (ROC) curve analysis and the areas under the curves are reported in the table. *Mann-Whitney test

| TNF-\( \alpha \) | 1885 | 4104 | 0.253 | 0.6273 | 1753 | 1751 | 0.9833 | 0.5046 | 1068 | 1119 | 0.6534 | 0.5509 | 380 | 229 | 0.794 | 0.5301 |
|-----------------|------|------|--------|---------|------|------|--------|---------|------|------|--------|---------|------|------|--------|---------|
| [1239-5368]     | [1763-5213] | [849-1943] | [51-3748] | [98-1609] | [339-3323] | [10-680] | [120-784] |

* Mann-Whitney test