**Table S2. Interaction between h128-3 Fab and LILRB4**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | h128-3 | LILRB4-D1 | Contacts | Total contacts1 |
| Heavy chain | N31 | E76 | 1 | 140 |
|  | H32 | L53 | 10 |  |
|  | Y34 | E54(1)2, R56(1), P103 | 13, 8, 1 |  |
|  | F53 | L53, E54 | 4, 17 |  |
|  | S57 | E54 | 1 |  |
|  | S59 | E54(1) | 6 |  |
|  | Y61 | E54(2), P103, V104 | 11, 10, 2 |  |
|  | S103 | E76(2), K78 | 12, 9 |  |
|  | T104 | E76 | 9 |  |
|  | D106 | K78(1) | 2 |  |
|  | W107 | L53, R56, K78 | 2, 15, 7 |  |
| Light chain | N30 | R56, E57(1), N73 | 1, 5, 8 | 131 |
|  | I32 | N73 | 5 |  |
|  | Y33 | A55, R56(1), E57, P74 | 1, 22, 1, 2 |  |
|  | S92 | R56(1) | 6 |  |
|  | Y93 | R56, E57(1), R101(1), S102, P103 | 8, 10, 15, 1, 2 |  |
|  | D94 | R101(2), P103, V104 | 10, 7, 3 |  |
|  | W95 | R56, P103(2), V104 | 6, 15, 2 |  |
|  | G96 | P103 | 1 |  |

1Numbers represent the number of atom-to-atom contacts between the antibody residues and the LILRB4 residues, which were analyzed by the Contact program in CCP4 suite (the distance cutoff is 4.5 Å).

2Numbers in the parentheses represent the number of hydrogen bonds between the antibody residues and the LILRB4 residues.