**Supplementary File 4.** A list of immunoreceptors that contain both ITIM and ITSM

|  |  |  |  |
| --- | --- | --- | --- |
| Receptor | ITIM Y position(AA) | ITSM Y position(AA) | ITIM-ITSM distance (AA)a |
| PD-1 | 223 | 248 | 25 |
| BTLA | 257 | 282 | 25 |
| Siglec-3 | 340 | 358 | 18 |
| Siglec-5 | 520 | 544 | 24 |
| Siglec-6 | 426 | 446 | 20 |
| Siglec-9 | 433 | 456 | 23 |
| Siglec-11 | 644 | 668 | 24 |
| CD300LF | 249 | 284 | 35 |
| VSTM4 | 289 | 310 | 21 |
| SIRPα | 429470496 | 453 | 24-16-43 |
| SLAMF5 | 341 | 279316 | -62-25 |
| SLAMF6 | 274 | 285309 | 1135 |
| PECAM1 | 690 | 713 | 23 |
| MPIG6B | 211 | 237 | 26 |
| AA: amino acidsITIM: immunoreceptor tyrosine-based inhibition motifITSM: immunoreceptor tyrosine-based switch motifa: Calculated as (ITSM Y position) - (ITIM Y position) |