Supplementary Table S2. Hydrogen bonds and salt bridges in 68F2:IL-6 complex.

| Hydrogen bonds | 68F2 residue structure | Kabat numbering | Distance (Å) | IL-6 residue |
|----------------|------------------------|----------------|--------------|--------------|
| Light chain- CDR1 | ASN 26[O] | ASN 27 | 3.60 | SER 76[OG] |
| | TYR 32[OH] | TYR 30 | 3.43 | SER 176[O] |
| | THR 31[N] | THR 29 | 3.55 | SER 76[OG] |
| | THR 31[O] | THR 29 | 3.42 | GLN 75[N] |
| Light chain-CRD3 | ASN 95[ND2] | ASN 93 | 3.77 | MET 67[O] |
| | ASN 97[OD1] | ASN 95 | 3.73 | ARG 179[NH2] |
| Heavy chain- CDR1 | TYR 33[OH] | TYR 33 | 3.47 | ARG 30[O] |
| | ARG 32[NE] | ARG 32 | 2.16 | ASP 34[OD1] |
| | ARG 32[NH2] | ARG 32 | 3.20 | ASP 34[OD2] |
| Heavy chain- CDR2 | TYR 60[OH] | TYR 58 | 2.59 | GLU 172[OE2] |
| | ASP 54[OD2] | ASP 52 | 3.37 | LYS 171[NZ] |
| | ASP 56[OD1] | ASP 54 | 2.90 | SER 37[OG] |
| | ASP 58[OD1] | ASP 56 | 3.86 | HIS 164[NE2] |
| | ASP 58[OD2] | ASP 56 | 3.42 | LYS 171[NZ] |
| | THR 59[O] | THR 57 | 2.52 | ARG 168[NH2] |
| | TYR 60[OH] | TYR 58 | 3.58 | ARG 168[NE] |
| | TYR 60[OH] | TYR 58 | 3.15 | LYS 171[NZ] |
| Heavy chain-CRD3 | ASP 102[OD2] | ASP 97 | 2.77 | ARG 30[NH2] |
| | VAL 104[O] | VAL 99 | 3.69 | ARG 179[NH1] |

| Salt bridges | 68F2 residue structure | Kabat numbering | Distance (Å) | IL-6 residue |
|---------------|------------------------|----------------|--------------|--------------|
| Heavy chain- CDR1 | ARG 32[NE] | ARG 30 | 3.20 | ASP 34[OD2] |
| | ARG 32[NH2] | ARG 30 | 3.28 | ASP 34[OD2] |
| Heavy chain- CDR2 | ASP 54[OD2] | ASP 52 | 3.37 | LYS 171[NZ] |
| | ASP 58[OD1] | ASP 56 | 3.86 | HIS 164[NE2] |
| | ASP 58[OD2] | ASP 56 | 3.42 | LYS 171[NZ] |
| Heavy chain- CDR3 | ASP 102[OD1] | ASP 97 | 3.40 | ARG 30[NH2] |
| | ASP 102[OD2] | ASP 97 | 2.77 | ARG 30[NH2] |