Supplemental Table 1: **MAbs CH07 and CH08 heavy and light chain and CDR3 characteristics.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Name | Type/ Gene Usage | Mutation Frequency | CDR3 Sequence | CDR3 length | GRAVY | Net CDR3 Charge |
| **CH07** | IgG1 |  |  |  |  |  |
| Heavy Chain | 3-15\*01 | 2.20% | TTEPDSGTYYNLSVFDY | 17 | -0.753 | -5 |
| Light Chain | Lambda | 1.90% | YSTDSSDNPL | 10 | -1.27 | 0 |
| 3-10\*01 |
| **CH08** | IgG1 |  |  |  |  |  |
| Heavy Chain | 1-69\*01 | 5.60% | ATGSDFDY1GGDSGIGVDFDF | 20 | -0.21 | -3 |
| Light Chain | Kappa | 1.20% | QQLNSYPIT | 9 | -0.733 | -2 |
| 1-9\*01 |

1 Indicates predicted sulfation site.