

S1 Table: Antibody constant region sequences

| Protein | IgG1 constant region | Fc effector function | Sequence | Sequence reference (Source) |
|---------------------|----------------------|---|--|---------------------------------|
| Human IgG1 | IgG1 heavy chain | Wild-type | ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELGGPSVFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK | pfuse-hchg1 (Invivogen) |
| | Kappa light chain | N/A | RTVAAPSVFIFPPSDEQLKSGTASVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSK DSTYLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC | pfuse2-hclk (Invivogen) |
| Human IgG1-SD/IE | IgG1 heavy chain | ADCC-enhanced, S239D/I332E (SD/IE) | ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELGGP <u>D</u> VFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIE <u>E</u> KTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK | Lazar et al., 2006 (PNAS) |
| | Kappa light chain | N/A | RTVAAPSVFIFPPSDEQLKSGTASVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSK DSTYLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC | pfuse2-hclk (Invivogen) |
| Human IgG1-LA/LA/PG | IgG1 heavy chain | ADCC-attenuated, L234A/L235A/P329G (LA/LA/PG) | ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPE <u>AA</u> GGPSVFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALGAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK | Schlothauer et al., 2016 (peds) |
| | Kappa light chain | N/A | RTVAAPSVFIFPPSDEQLKSGTASVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSK DSTYLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC | pfuse2-hclk (Invivogen) |
| Rabbit IgG | IgG1 heavy chain | Wild-type | GQPKAPSVFPLAPCCGDTSPSTVTLGCLVKGYLPEPVTVTWNSGTLTNGVRTFPSVRQSSGLYSLSSVSVTSSSQPVTCNVAHPATNTKVDKTVAPSTCCKPTCPPPELLGGPSVFIFPPKPKDTLMISRTPEVTCVVDVSEDDPEVQFTWYINNEQVTRARPLREQQFNSTIRVVSTLPIAHEDWLRGKEFKCKVHNKALPAPIEKTISKARGQPLEPKVYTMGPPREELSSRSVSLTCMINGFYPSDISVEWEKNGKAEDNYKTPAVLSDGSYFLYKLSVPTSEWQRGDVFTCSVMHEALHNHYTQKSISRSPGK | L29172 (IMGT) |
| | Kappa light chain | N/A | RDPVAPSVLLFPPSKEELTTGTATIVCVANKFYPSDITVTWKVDGTTQQSGIENSKTPQSPEDNTYLSSTLSLTSQAQNSHSHVYTCVQGSASPIVQSFNRGDC | X00232 (IMGT) |
| Pig IgG | IgG1 heavy chain | Wild-type | APKTAPS ^V YPLAPCGRDTSGPNVALGCLASSYFPEPVMTWNSGALTSGVHTFPSVLQPSGLYSLSSMVTVPASSLSSKSYTCNVNHPATTTKVDKRVGTKTKPPCPICPGCEVAGPSVFIFPPKPKDTLMISQTPEVTCVVDVSKAEVQFSWYVDGVEVHTAETRPKEEQFNSTYRVVSVLPIQHQDWLKGKEFKCKVNNVDLPAPITRTISKAIGQSREPQVYTLPPPAAEELSRSKVTVTCLVIGFYPPDIHVEWKSNGQPEPEGNYRTTPPQQDVGDTFFLYSKLAVDKARWDHGETFECAVMHEALHNHYTQKSISKTQGK | AB699686 (IMGT) |
| | Kappa light chain | N/A | RADAKPSVFIFPPSKEQLETQTVSVVCLLNSFFPREVNVKWKVDG ^V VQSSGILDSVTEQDSK DSTYLSSTLSLPTSQYLSHNLVYSCVTHKTLASPLVKSFSRNECEA | FP312898 (IMGT) |