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Figure 1

IGKV4-1 DIVMTQSPDSLAVSLGERATINCKSSQSVLYSSNNKNYLAWYQQKPGQPPKLLIYWASTR
 280.46.3.4 DIVMTQSPSSLAVSVGEKVTMSCKSSQSLLYSSNQKNCLAWYQQKPGQSPKLLIYWASSR
 *****.******:*.:.*:.******:*****:.* *****.******.*

IGKV4-1 ESGVPDRFSGSGSGTDFTLTITSSLQAEDVAVYYCQQYYSTP
 280.46.3.4 ESGVPDRFTGSGSGTDFTLTITSSVKTEDLAVYYCQQYFSYPFTFGSGTKLEIK
 *****:*****:.*:.*:.******:.* *

Figure 2

IGHV3-66 EVQLVESGGGLVPGGSLRLSCAASGFTVSSNYSWVRQAPGKGLEWVSVIY-SGGSTYY
280.46.3.4 EVQLQQSGPELVRPGTSVKISCKASGYSLTADYMNWVKQSPEESLEWIGEINPSTGTTY
**** : ** ** : ** * : : ** ** : : : : ** . ** : * : . : . ** : . * * * : * *

IGHV3-66 ADSVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCAR---FDYWGQGLTVTVSS
280.46.3.4 NQKFEAKATLTVDQSSNTAYLQLTSLTSEDSAVYYCARFDAYFDYWGQGT TVTVSS
: : : : * : : * : . ** ** : . ** : ** : * * * * * * * * * * * * * * *

Figure 3

IGKV4-1 DIVMTQSPDSLAVSLGERATINCKSSQSVLYSSNNKNYLAWYQQKPGQPPKLLIYWASTR
280.VK4-1-C DIVMTQSPDSLAVSLGERATINCKSSQSLLYSSNQKNCLAWYQQKPGQPPKLLIYWASSR
*****:*****:***

IGKV4-1 ESGVPDRFSGSGSGTDFTLTISSLQAEDVAVYYCQQYYSTP
280.VK4-1-C ESGVPDRFSGSGSGTDFTLTISSLQAEDVAVYYCQQYFSPFTFGQGTEKVEIK
*****:***

Figure 4

280.VH3-66.1 EVQLVESGGGLVQPGGSLRLSCAASGYSLT**ADYMN**WVRQAPGKGLEWIG**EINPSTGTTTY**
IGHV3-66 EVQLVESGGGLVQPGGSLRLSCAASGFTVSSNYMSWVRQAPGKGLEWVSVIY-SGGSTYY
*****:::.*.*****.: * * *: * *

280.VH3-66.1 **NQFEAR**ATLTVDQSKNTAYLQMNSLRaedTAVYYCAR**FDAYFDY**WGQGTlLVTVSS
IGHV3-66 ADSVKGRFTISRDNskntLYLQMNSLRaedTAVYYCAR----FDYWGQGTlLVTVSS
:.:. * * :. * :**** ***** *****

Figure 5

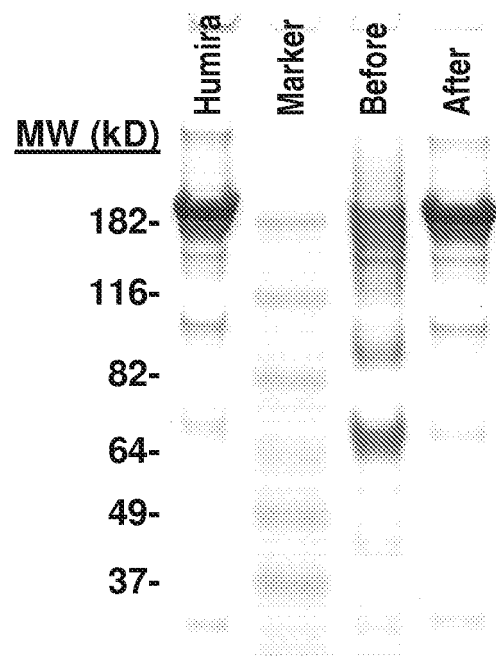
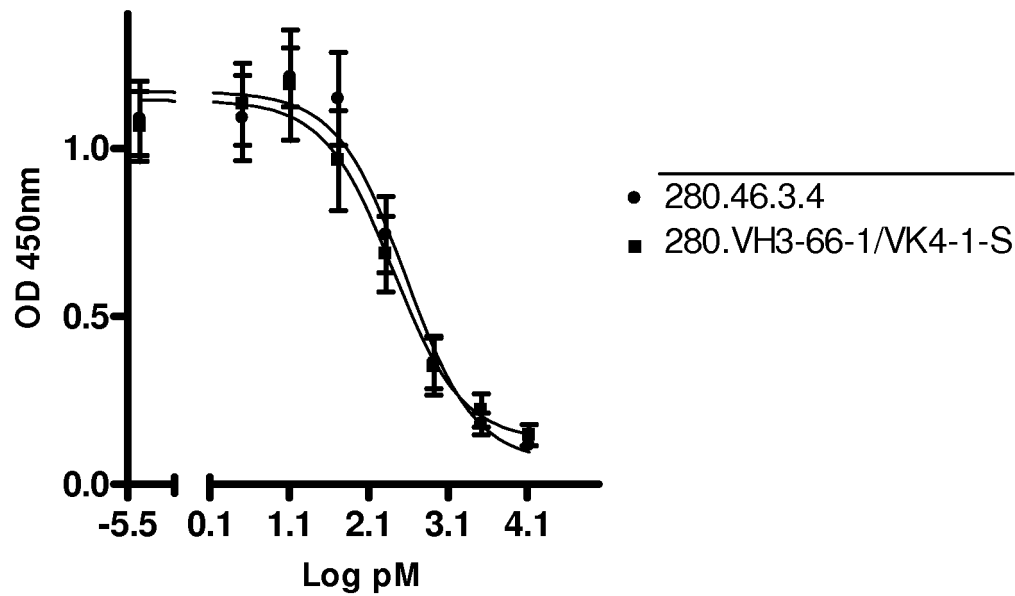


Figure 6



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Figure 7

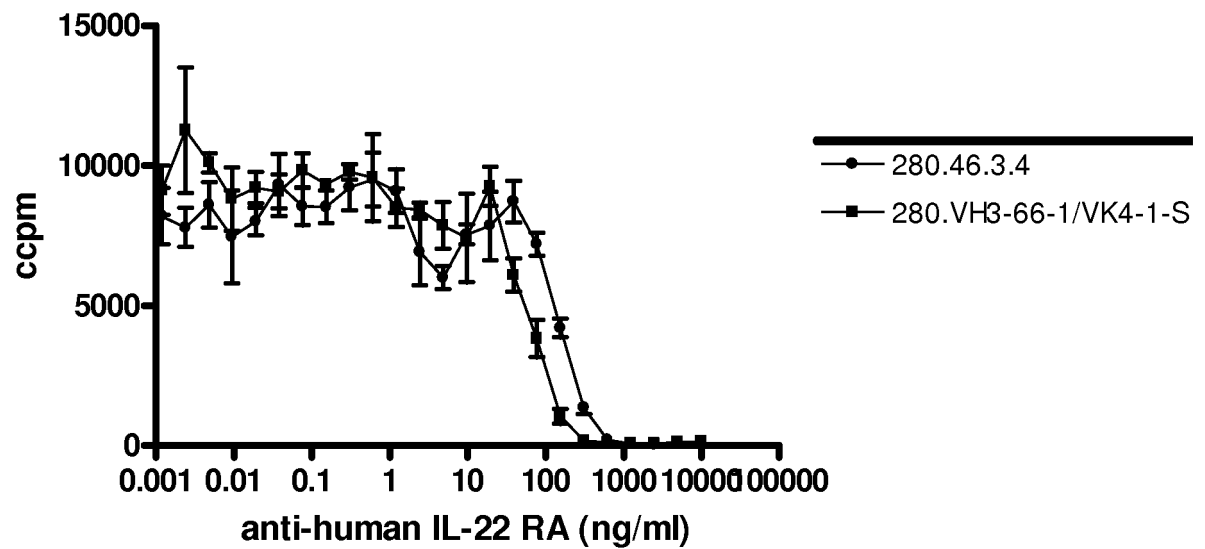


Figure 8

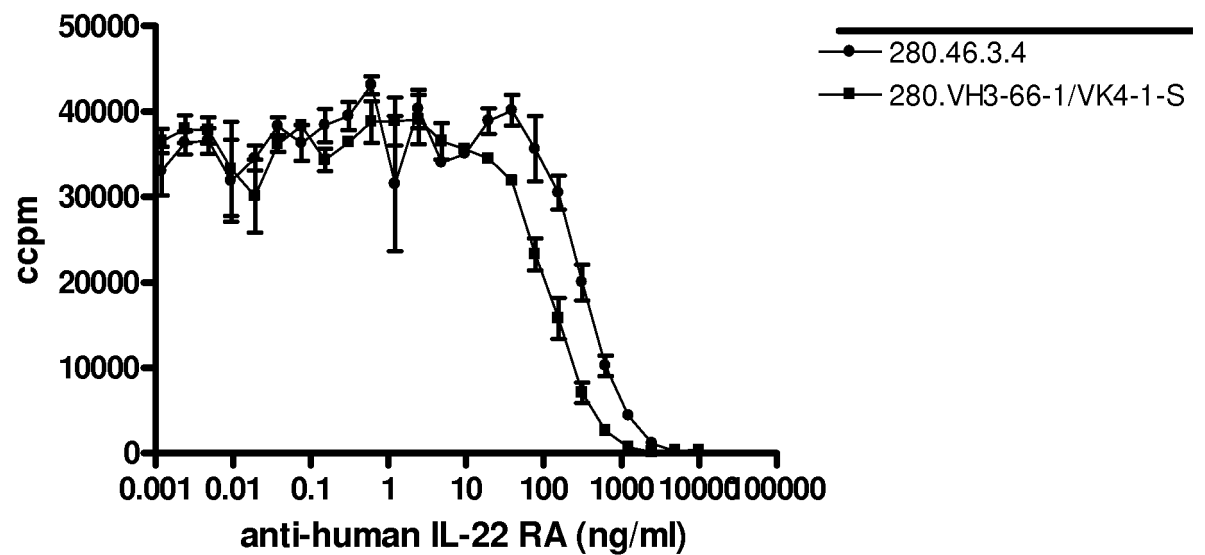


Figure 9

```
IGHV3-66      EVQLVESGGGLVQPGGSLRLSCAASGFTVSSSNYMSWVRQAPGKGLEWVSVIY--SGGSTYY
280.VH3-66-4 EVQLVESGGGLVQPGGSLRLSCAASGYSLTADYMNWVRQAPGKGLEWIGEINPSTGTTY
*****:::..*.....:.* * * : * *
IGHV3-66      ADSVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCAR---FDYWGQGLVTVSS
280.VH3-66-4 NQFKGRATLSVDQSKNTAYLQMNSLRAEDTAVYYCARFDAYFDYWGQGLVTVSS
...** * * : * * : * * : * * : * * : * * : * *
```

Figure 10

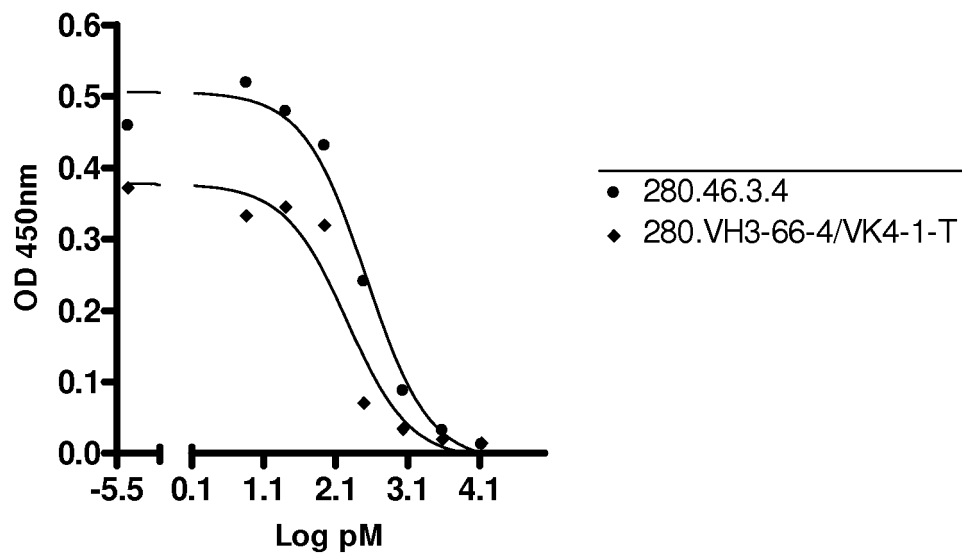
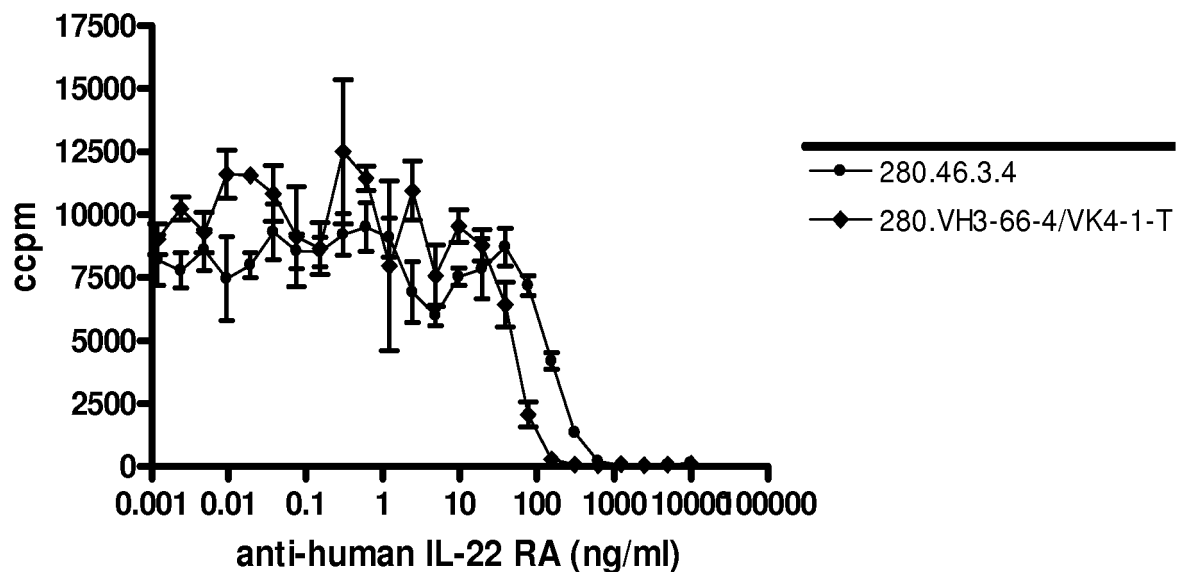


Figure 11



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Figure 12

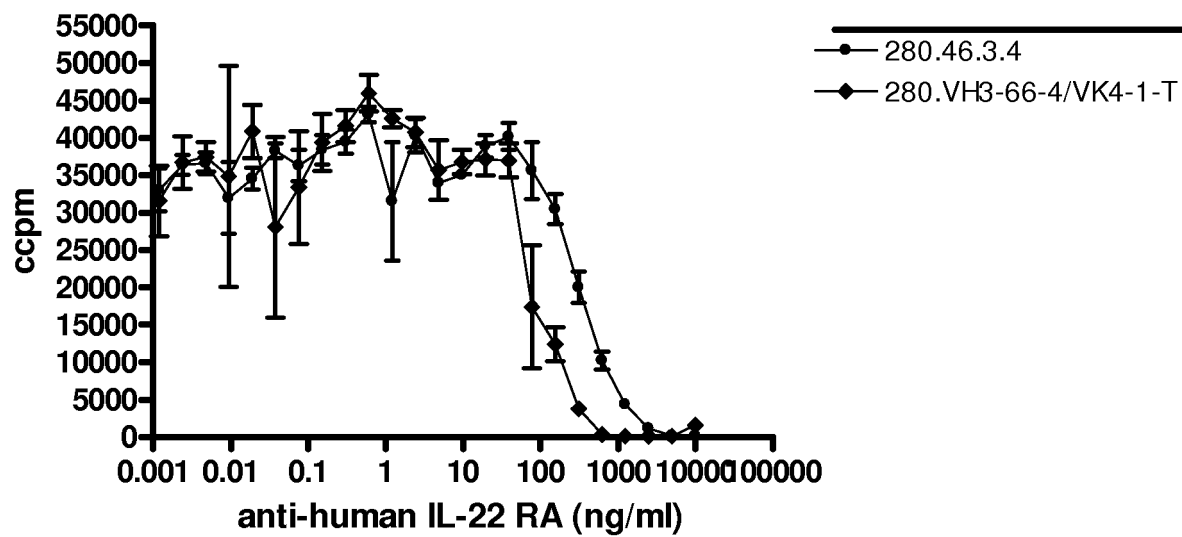
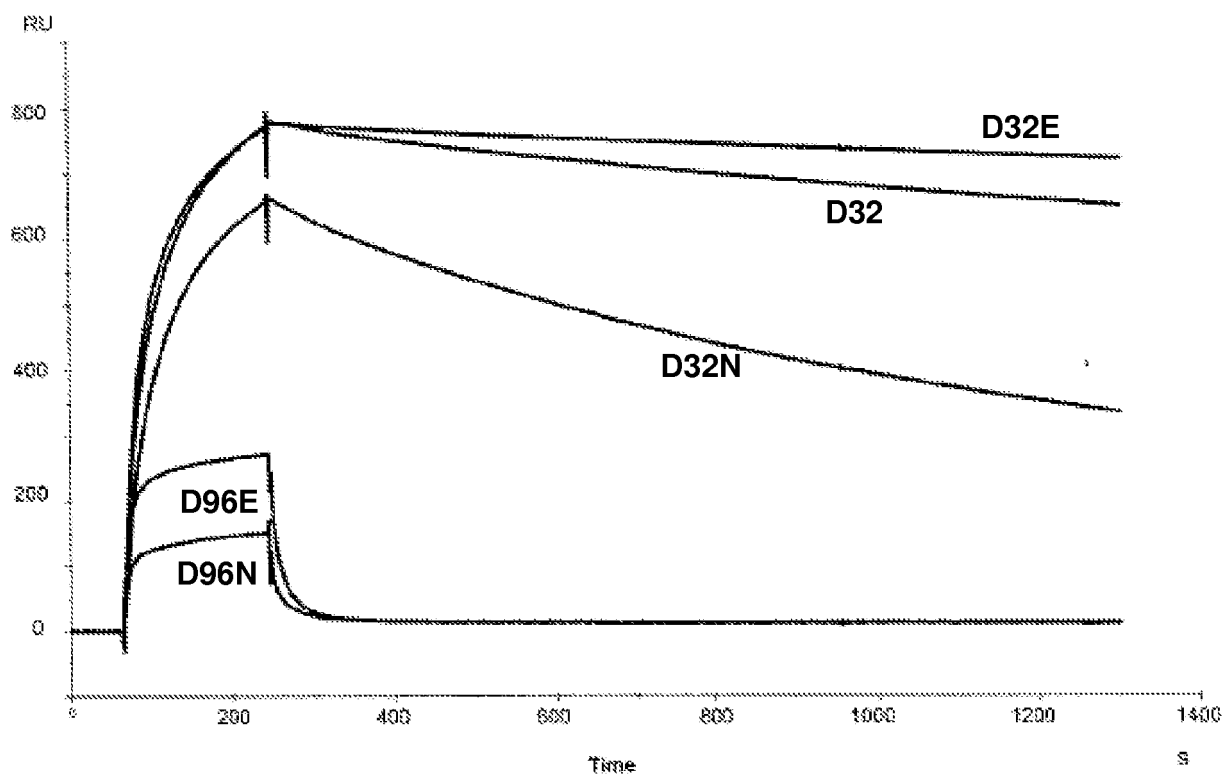


Figure 13



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Figure 14

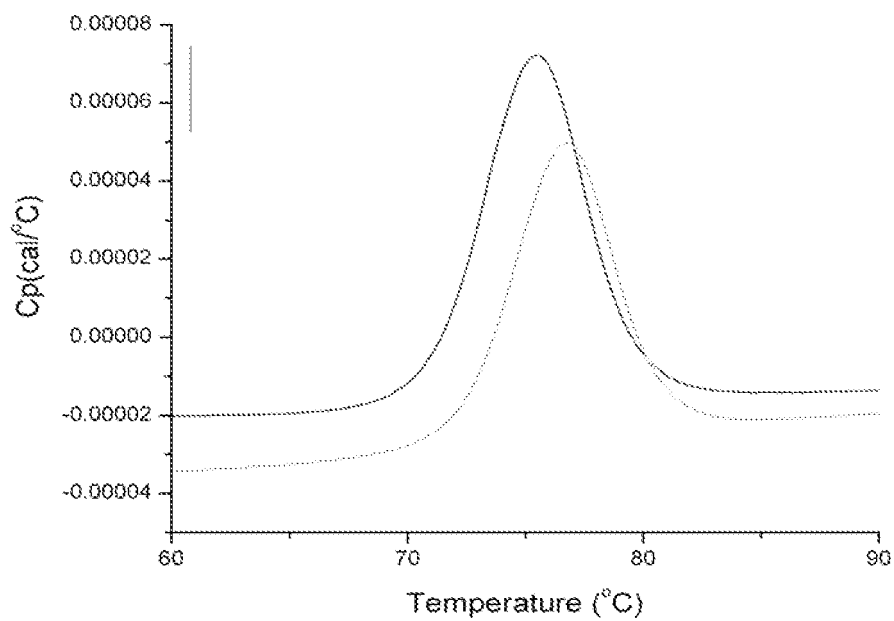


Figure 15

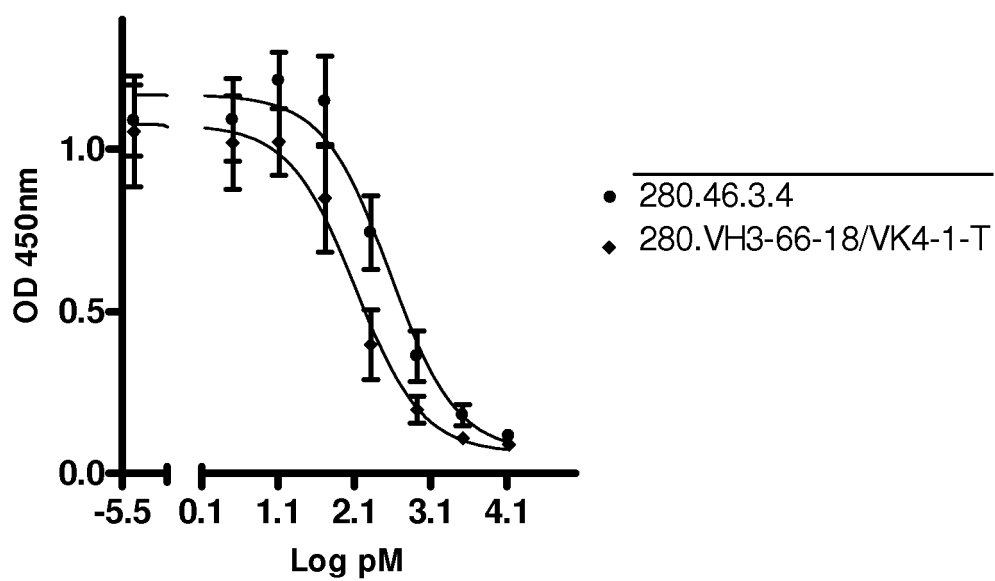


Figure 16

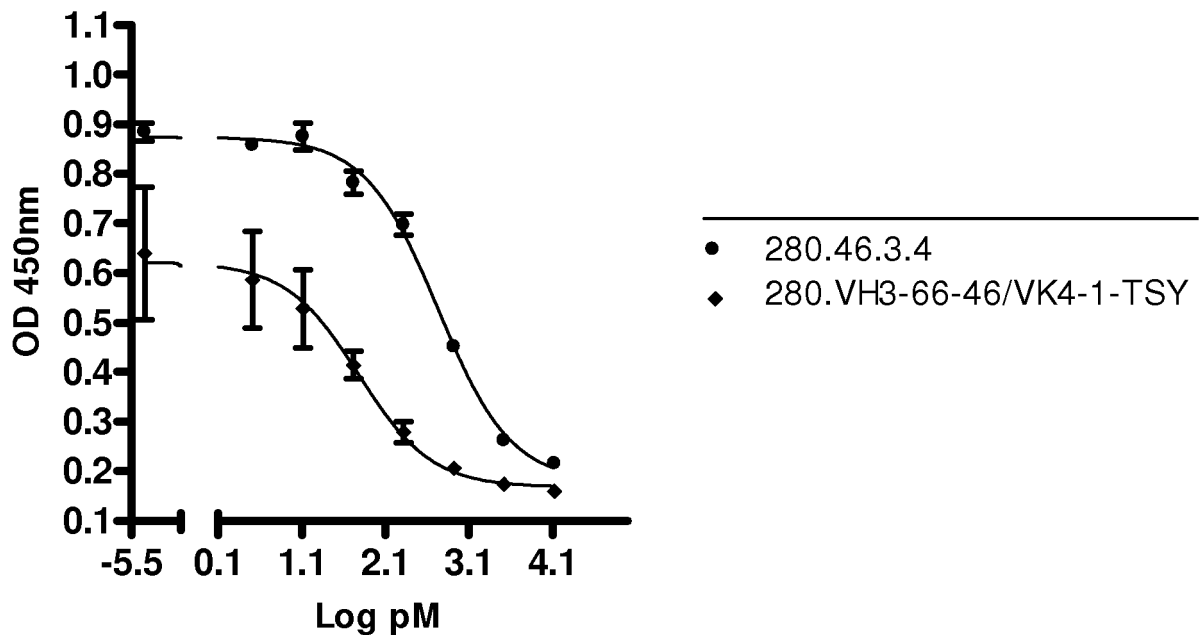
28-VH3-66.46 EVQLVESGGGLVQPGGSLRLSCAASGYSITAEYMNWVRQAPGKGLEWIG**EINPSTGTTTY**
IGHV3-66 EVQLVESGGGLVQPGGSLRLSCAASGFTVSSNYMSWVRQAPGKGLEWVSVIY--SGGSTYY
*****:::*.*****:. * * * : * *
28-VH3-66.46 **NQKFKG**RFTISVDQSKNTAYLQMNSLRAEDTAVYYCAR**FDAYFDY**WGQGTLLTVSS
IGHV3-66 ADSVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCAR----FDYWGQGTLLTVSS
:..***** *:***** ***** *****

Figure 17

IGKV4-1 DIVMTQSPD~~SLAVSLGERATINCKSSQS~~SVLYSSNNKNYLAWYQQKPGQP~~PKLLIYWASTR~~
 280.VK4-1-TSY DIVMTQSPD~~SLAVSLGERATINCKSSQS~~LLYSSNQKNCLAWYQQKPGQP~~PKLLIYWASSR~~
 *****:*****:* *****:*

IGKV4-1 ESGVPDRFSGSGSGTDFTLTIS~~SLQAEDVAVYYCQ~~QYYSTP
 280.VK4-1-TSY ESGVPDRFSGSGSGTDFTLTIS~~SLQAEDVAVYYCQ~~QYYSYPFTFGQGTKVEIK
 ***** *

Figure 18



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Figure 19

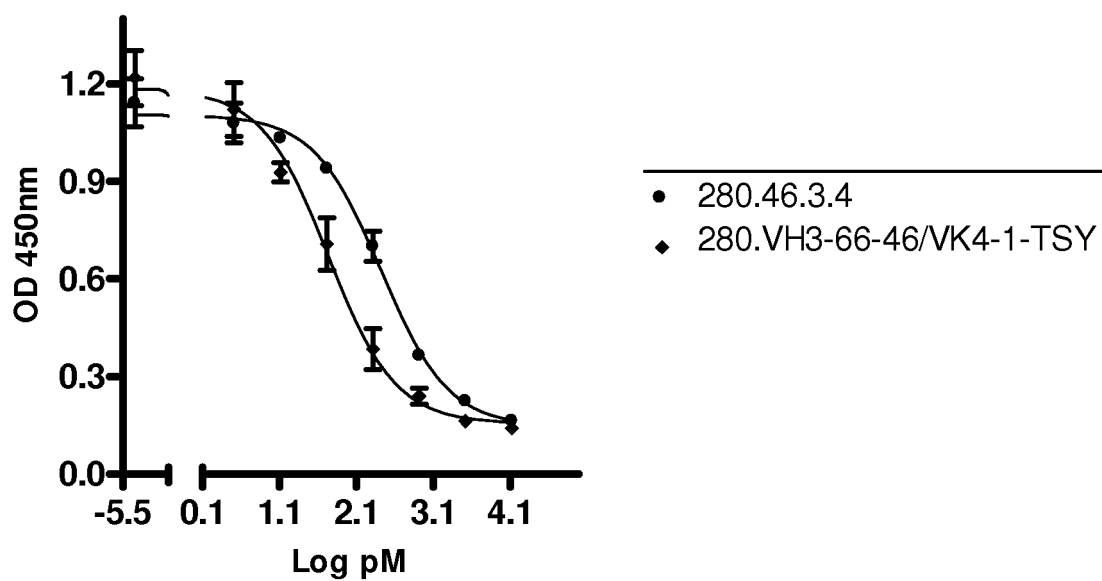
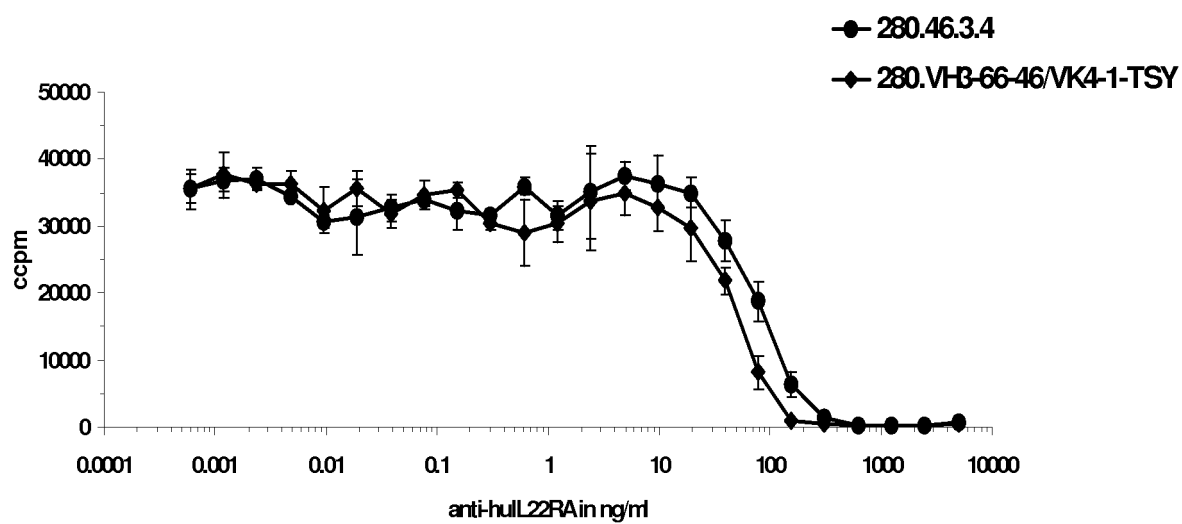


Figure 20



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Figure 21

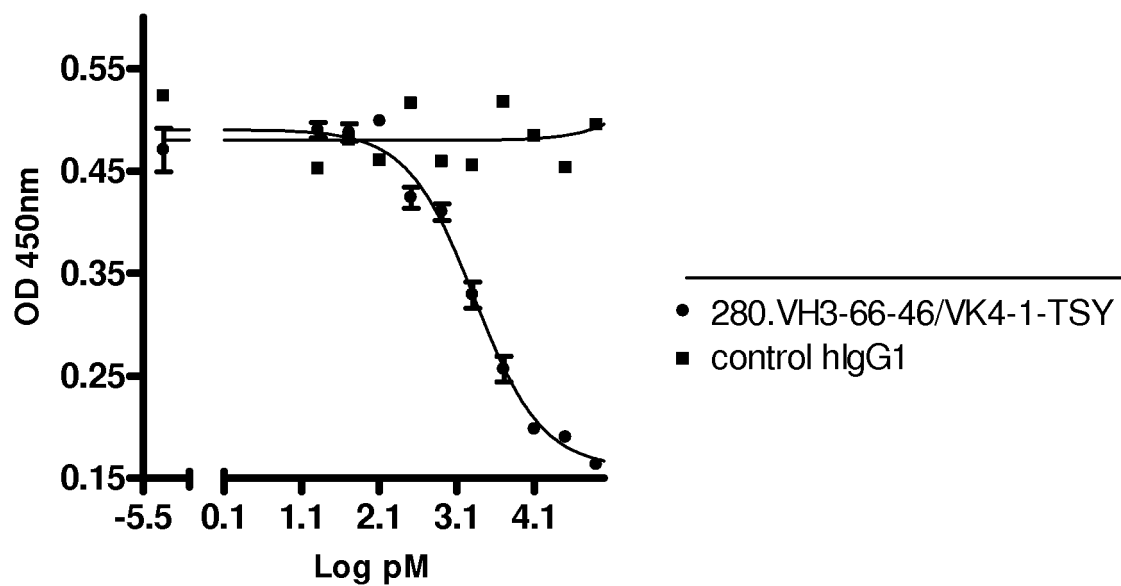


Figure 22

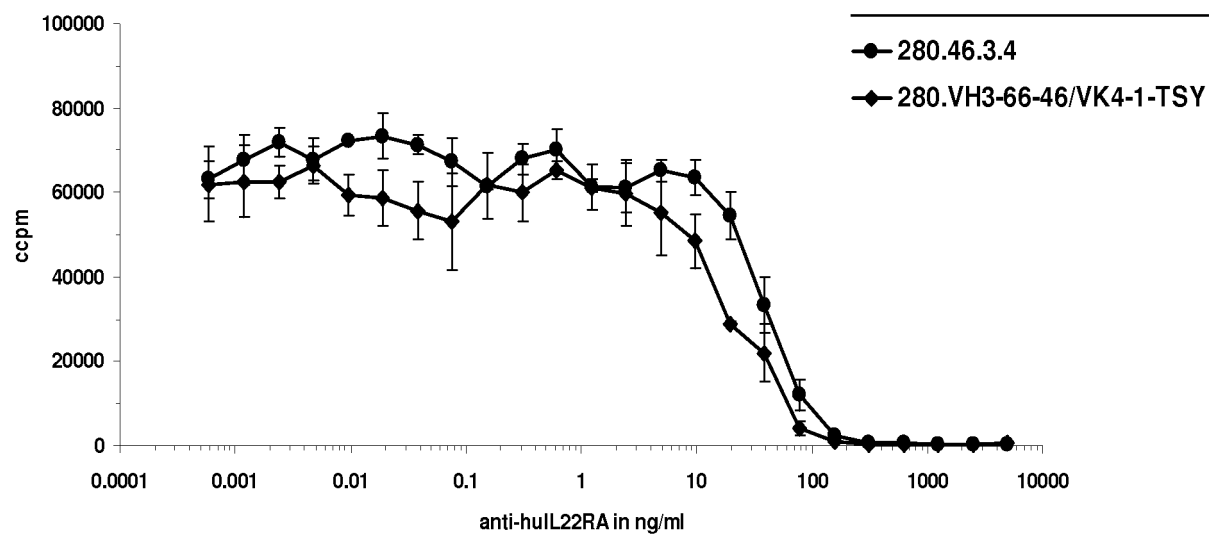


Figure 23

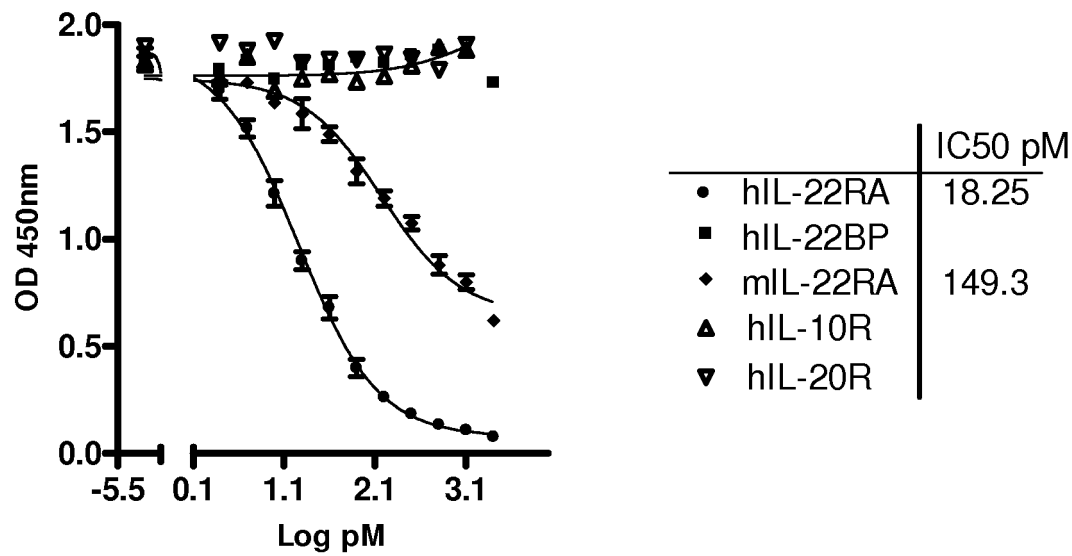
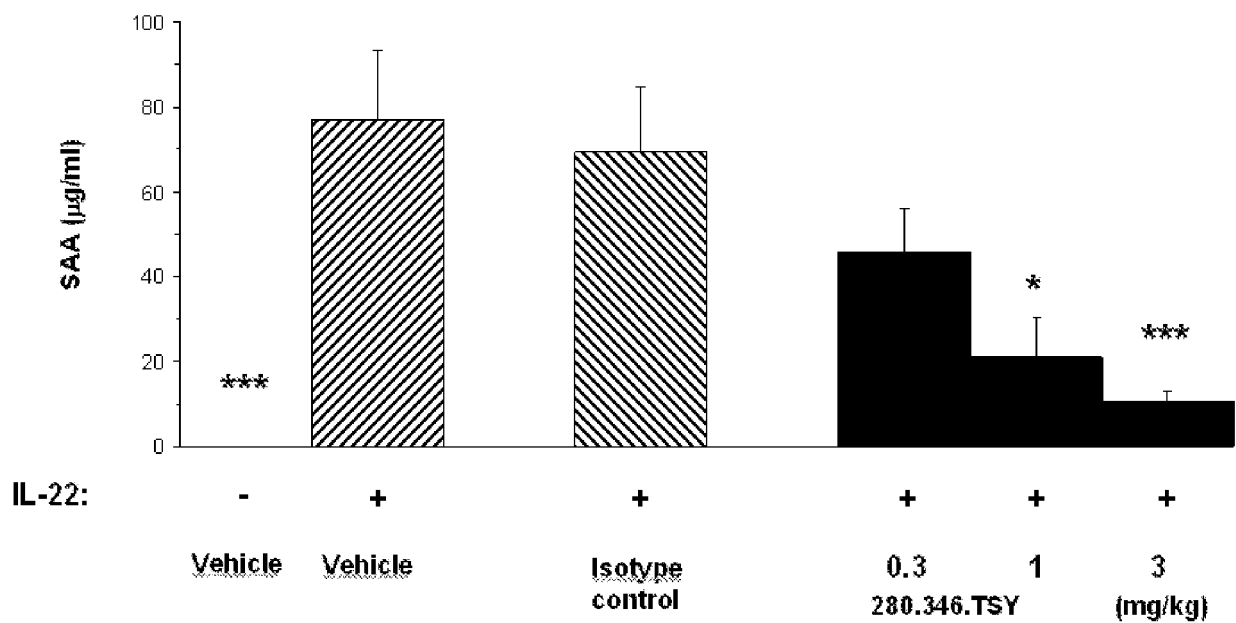


Figure 24



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Figure 25