

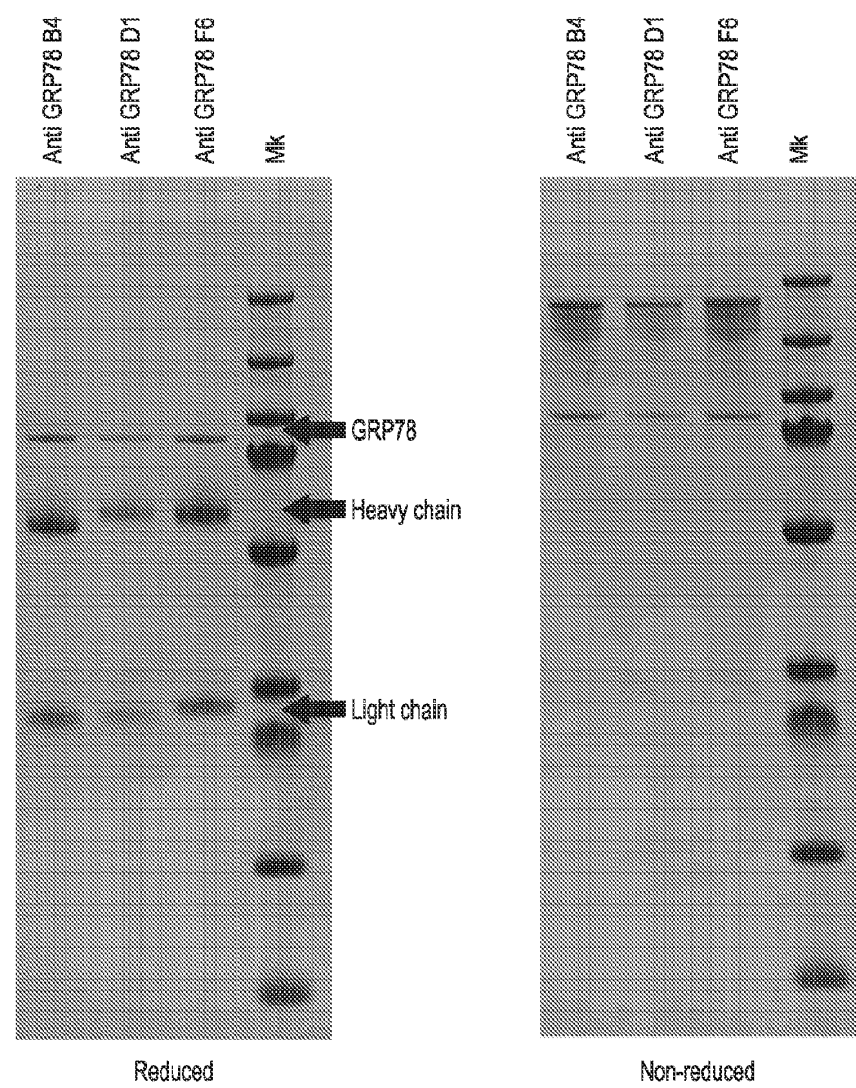


FIG. 1

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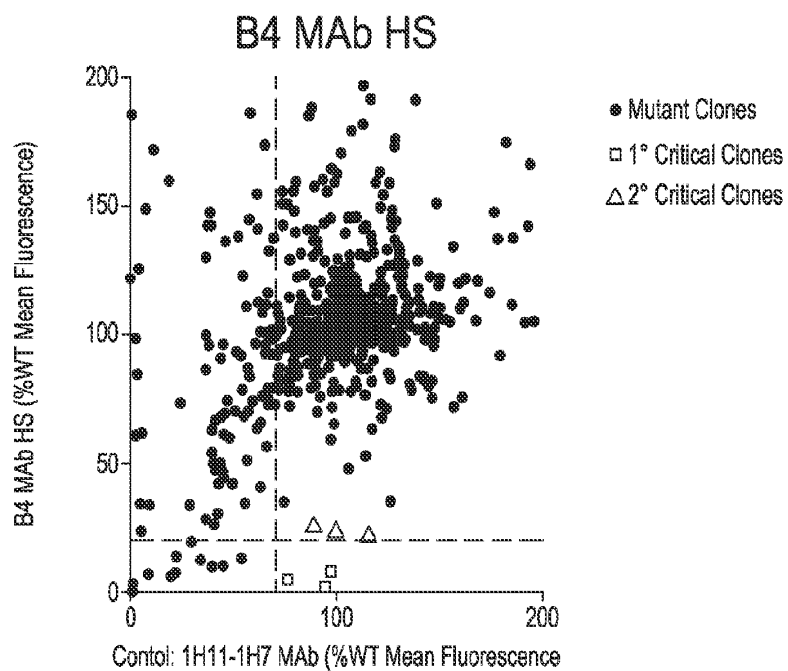


FIG. 2A

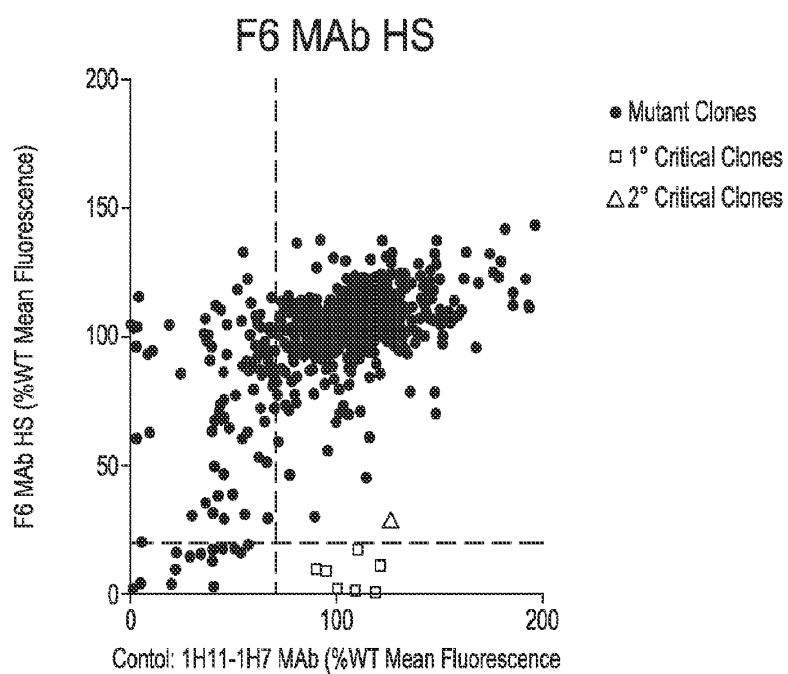
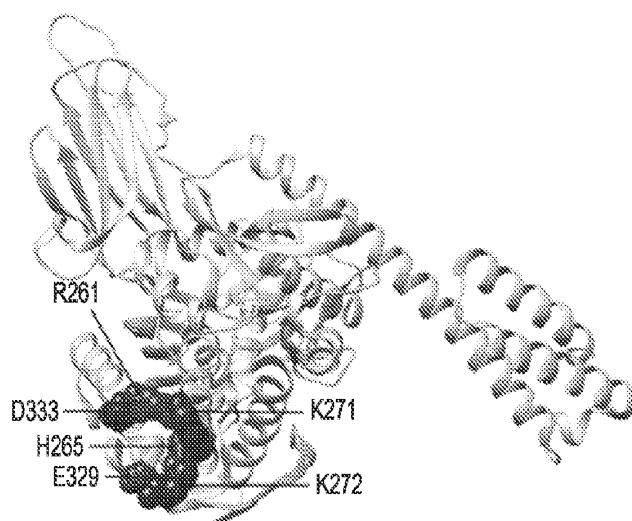


FIG. 2B

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# B4 MAb



# F6 MAb

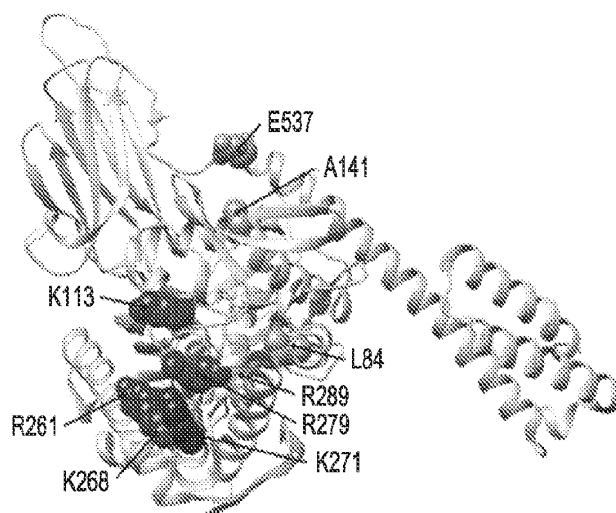


FIG. 3

B4 and F6 mAB interacting GRP78 sequences (condons and corresponding AA's)

|                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Human GRP78 CDS<br>nucleotide sequence<br>R261 (B4 & F6)<br>H265 (B4 only)<br>K271 (B4 & F6)<br>R279 (F6 only)<br>E329 (B4 only) | Intron 4: 1924...2012<br>GTAAAGTATGAAATTCAGGGGATACGGCATATTTGCCAAATAGTGGAATGTGAAGTACTGACAA<br>AACTTTTCCCTTTTTCAAATCTAATAG<br><br>Exon 5: 2013...2403<br>TACGGCAGCTGCTATTGCTTATGCGCTGGATAAGAGGGGAGGGGAGAGAACAATCCTGGTGT<br>TGACCTGGGTGGCGGAACCTTCGATGTGCTCTTCTCACCATTGACAATGGTGTCTTCGAAGT<br>TGTGGCCACTAATGGAGATACATCATCTGGGTGGAGAGACTTTGACCAAGGTCATGGAAAG<br>TTTCATCAAACTGTACAAAGAGACGGGCAAGATGTGAAAGACAAATAGAGCTGTGCA<br>GAAACTCCGGCGGAGGTAGAAAAGGCCAACGGGCCCCCTGTCTTCTCAGCATCAAGCAAGAAT<br>TGAAATTGAGTCCCTTCTATGAAGGAGAGACTTTTCTGAGAGCCCTGACTCGGGCCAAAATTTC<br>AAGCTCAACATG                                                                                                                                            |  |
|                                                                                                                                  | Intron 5: 2404...2516<br>GTATGTTCCCTTGTGTTTCTGCTTTGCTAATGAGATCTCCTTAGACTCTGAATTCAGGACATTGC<br>ATCTAGATACTTAGATAACAGACATCAGACAGTAACCATGTCCTTTTCTTAG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
|                                                                                                                                  | MKLSLVAAMLILLSAARAEEDKKEDVGIVVGI DLGTFYSCVGVFKNGRVEI IANDQGNRI<br>SYVAFTPEGERLIGDAAKNQTSNPENTVFDAKRLI GRWNDFSVQQDIKELPDKVVEKKT<br>YIQVDIGGGQTKTFAPEEISAMVLTMKETA EAYLGKKVTHAVVTPAYFNDAQRAQTKDAGT<br>IAGLNVMRIINEPTAAAIAYGLDKREGEKNILVEDLGGGTFDVSLLTIDNGVFEVVATNGDTH<br>LGGEDEFQVMEPIKLYKKTKGDMKKDNRAVQKL RREVEKAKRALSSQHQA RIEIESFYE<br>EDFSETLTTRAKFELNNMDLFRSTMKFVQKVLEDSDLKKSDDIDEIVLVGGSTRI PKIQQLVKE<br>FNGKEPSRGINPDEAVAYGA AVQAGVLSGDQDTGDLVLLDVCP LTLG IETVGGVMTKLI PRNT<br>VVPTKKSQIES TASNQPTVTIKVYEGERPLTKDNHLLGTFDLTGIPAPRGVPQIEVTFEID<br>VNGILRVTAEDKGTGNKNKITITNDQNRLTP EEEIERMVNDAEKEAEEDKKLKERIDTRNELES<br>YAYS LKNQIGDKEKLGKLSSEDKETMEKAVEEKIEWLESHQDADIEDFKAKKKELEEIVQPI<br>ISKLYGSAGPPPTGEEDTA EKDEL |  |
|                                                                                                                                  | Human GRP78 AA<br>sequence<br>R261<br>H265<br>K271<br>R279<br>E329                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
|                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
|                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |

FIG. 4

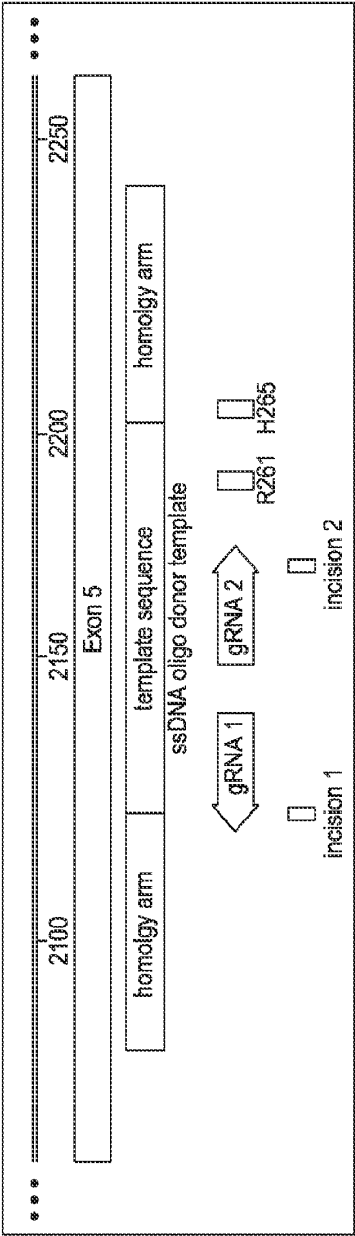


FIG. 5A

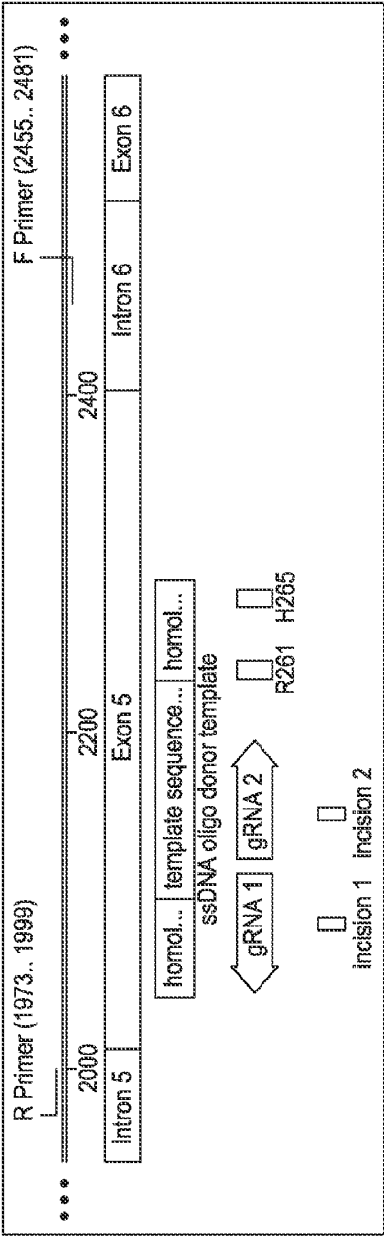


FIG. 5B