

Figure 1: Ab5.5 VL domain with Chothia CDR definitions and numbering

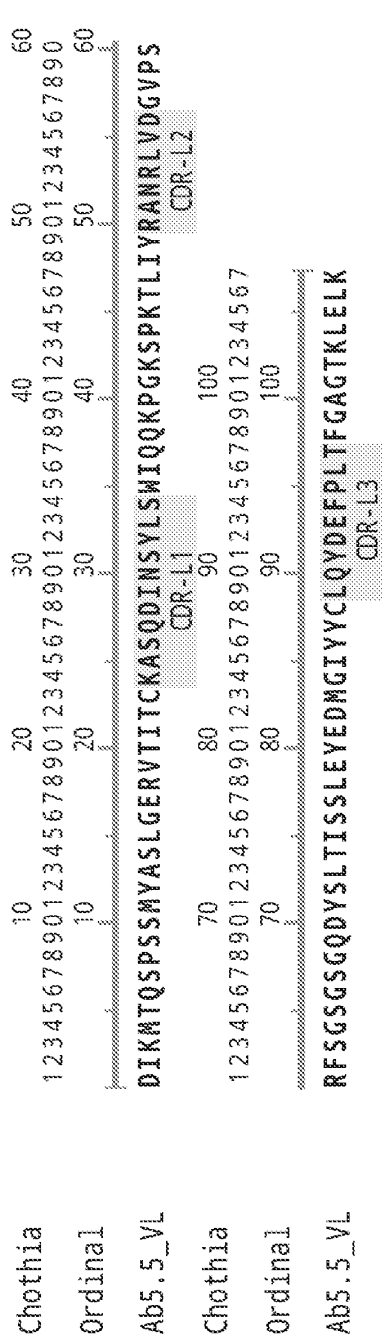
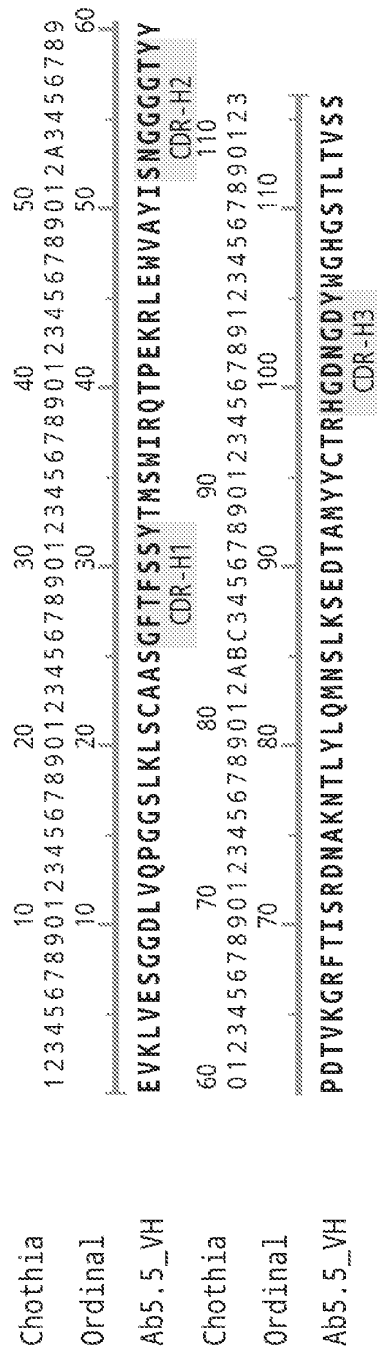


Figure 2: Ab5.5 VH domain with Chothia CDR definitions and numbering



[illegible]

Chothia	10	20	30	40	50
Ordinal	1	2	3	4	5
Ab5.5 VH	1	2	3	4	5
VH3-3-07	1	2	3	4	5
JH4	1	2	3	4	5

Chothia	70	80	90	100	110
Ordinal	6	7	8	9	10
Ab5.5 VH	6	7	8	9	10
VH3-3-07	6	7	8	9	10
JH4	6	7	8	9	10

Figure 5: Histogram of global DRB1 risk scores with Ab5.5 and Ab5.5_var15 highlighted by arrows

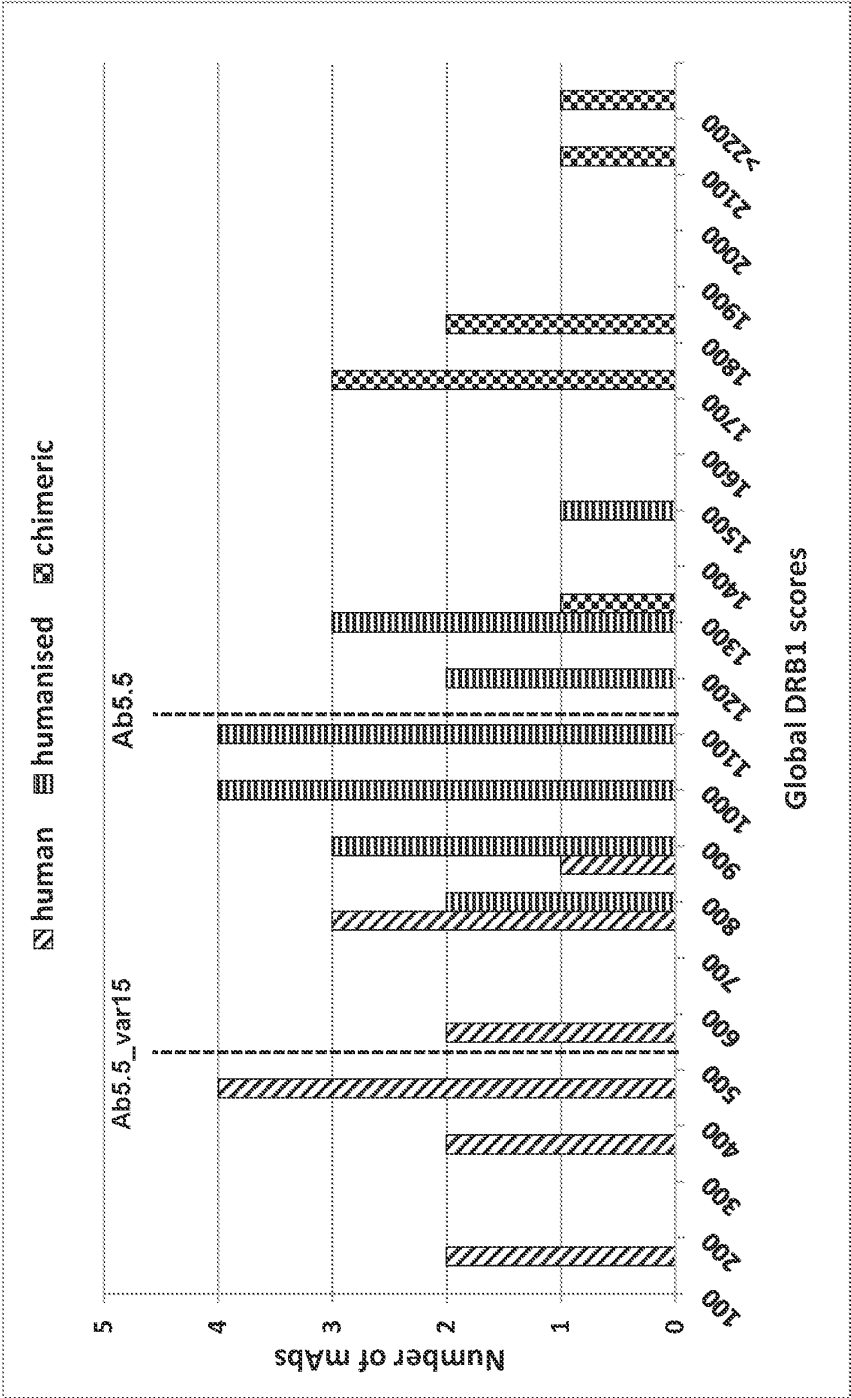


Figure 6. Epitope mapping for four antibody variants.

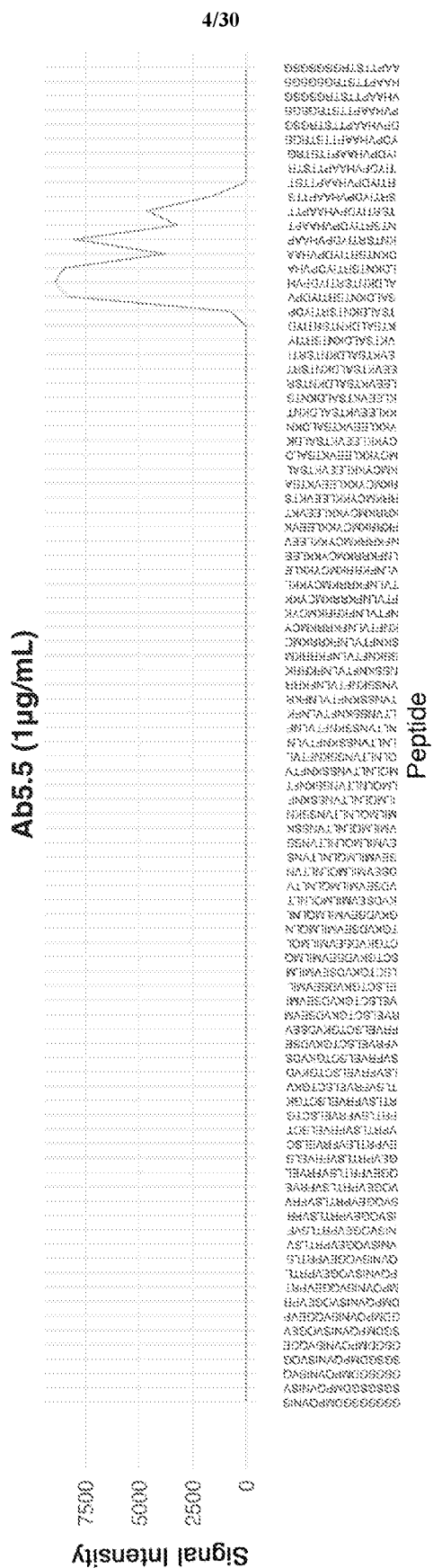


Figure 6. continued-2

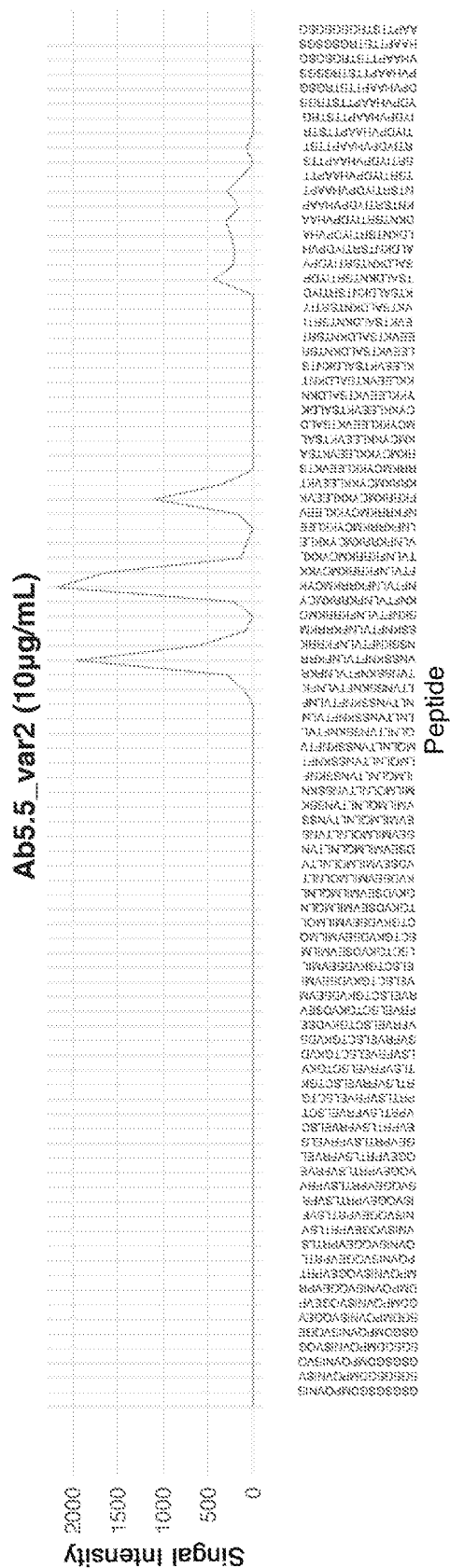


Figure 7. Recombinant protein sequences

MEP/Thrombin/hRYK[A]	MKIECKLVIWINGDKYNGLAEVCKNTEKDTGINKVTVEHPDKLEKFFQVAATCGPDI	60
MEP/Thrombin/hRYK[DE]	MKIECKLVIWINGDKYNGLAEVCKNTEKDTGINKVTVEHPDKLEKFFQVAATCGPDI	60
MEP/Thrombin/hRYK[A]	IFWAHDFGGYAQSCLLAEITPDKAFODKLYFFTWDAVRYNCKLIAYPIAVEALSIIYNK	120
MEP/Thrombin/hRYK[DE]	IFWAHDFGGYAQSCLLAEITPDKAFODKLYFFTWDAVRYNCKLIAYPIAVEALSIIYNK	120
MEP/Thrombin/hRYK[A]	DLLPNPKTWEEIPALDKELKAKGKSALMENLQEEFYFTWPLIAADGGYAFKYENCKYDEK	180
MEP/Thrombin/hRYK[DE]	DLLPNPKTWEEIPALDKELKAKGKSALMENLQEEFYFTWPLIAADGGYAFKYENCKYDEK	180
MEP/Thrombin/hRYK[A]	DVGVDNAGAKAGLTFLVDLIKNKHNNADTDYSIAEAAFNKGETAMTINGPFAWSNIDTSK	240
MEP/Thrombin/hRYK[DE]	DVGVDNAGAKAGLTFLVDLIKNKHNNADTDYSIAEAAFNKGETAMTINGPFAWSNIDTSK	240
MEP/Thrombin/hRYK[A]	VNYGVTVLPTFKGQPSKPFVGVLSAGINAASPNNKELAKEFLENYLLTDECLEAVNKDKPL	300
MEP/Thrombin/hRYK[DE]	VNYGVTVLPTFKGQPSKPFVGVLSAGINAASPNNKELAKEFLENYLLTDECLEAVNKDKPL	300
MEP/Thrombin/hRYK[A]	CAVALKSYEEELVKDPRNIAATMENNAQKGEIMPNI PQMSAFWYAVRTAVINAAAGKQTVDE	360
MEP/Thrombin/hRYK[DE]	CAVALKSYEEELVKDPRNIAATMENNAQKGEIMPNI PQMSAFWYAVRTAVINAAAGKQTVDE	360
MEP/Thrombin/hRYK[A]	ALKDAQTLVPRGSDMPQVNI SVQGEVPTLSVFRVELSCTGKYDSEVMILMQLNLTVNSS	420
MEP/Thrombin/hRYK[DE]	ALKDAQTLVPRGSDMPQVNI SVQGEVPTLSVFRVELSCTGKYDSEVMILMQLNLTVNSS	420
MEP/Thrombin/hRYK[A]	KNFTVLNFRNRRCYKKLEEVKTSALDKNTSETIYDPVHAAPTSTR*	467
MEP/Thrombin/hRYK[DE]	KNFTVLNFRNRRCYKKLEEVKTSALDKN-----HAAPTSTR*	458

Figure 8. Western blot screen of Ab5.5 variants with recombinant human Ryk antigen

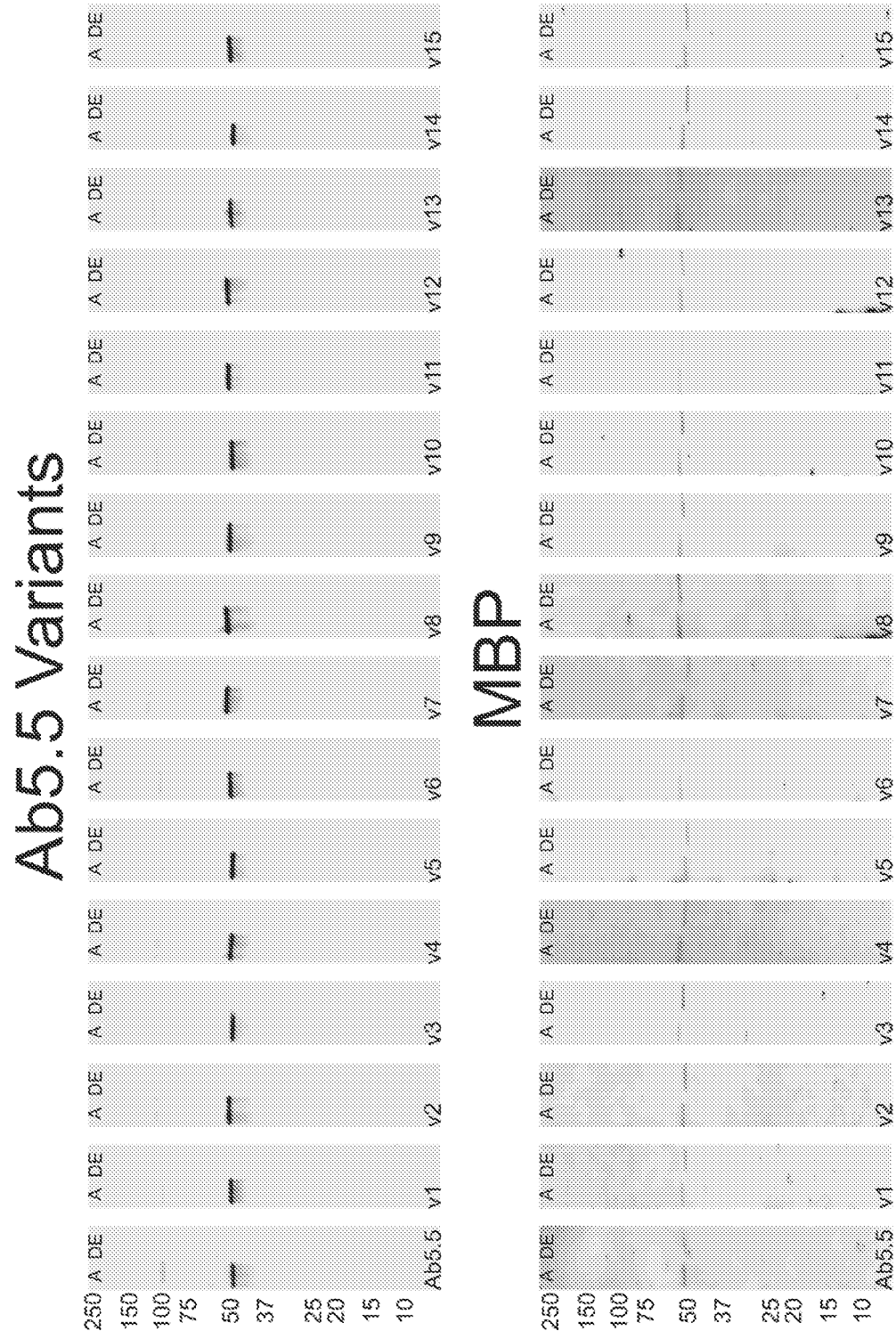


Figure 8. continued

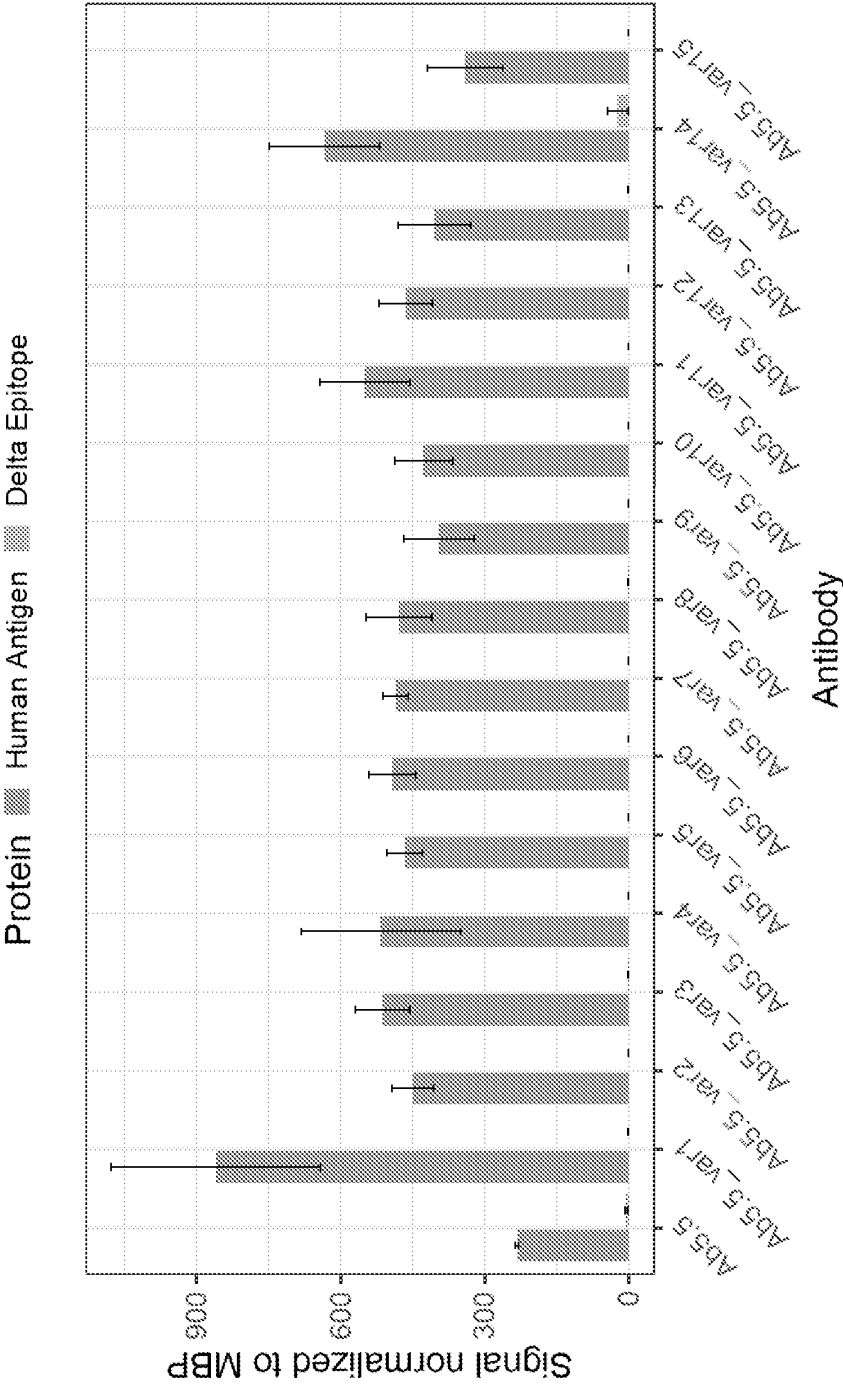


Figure 9. Ab5.5 Substitution Scan Heatmap

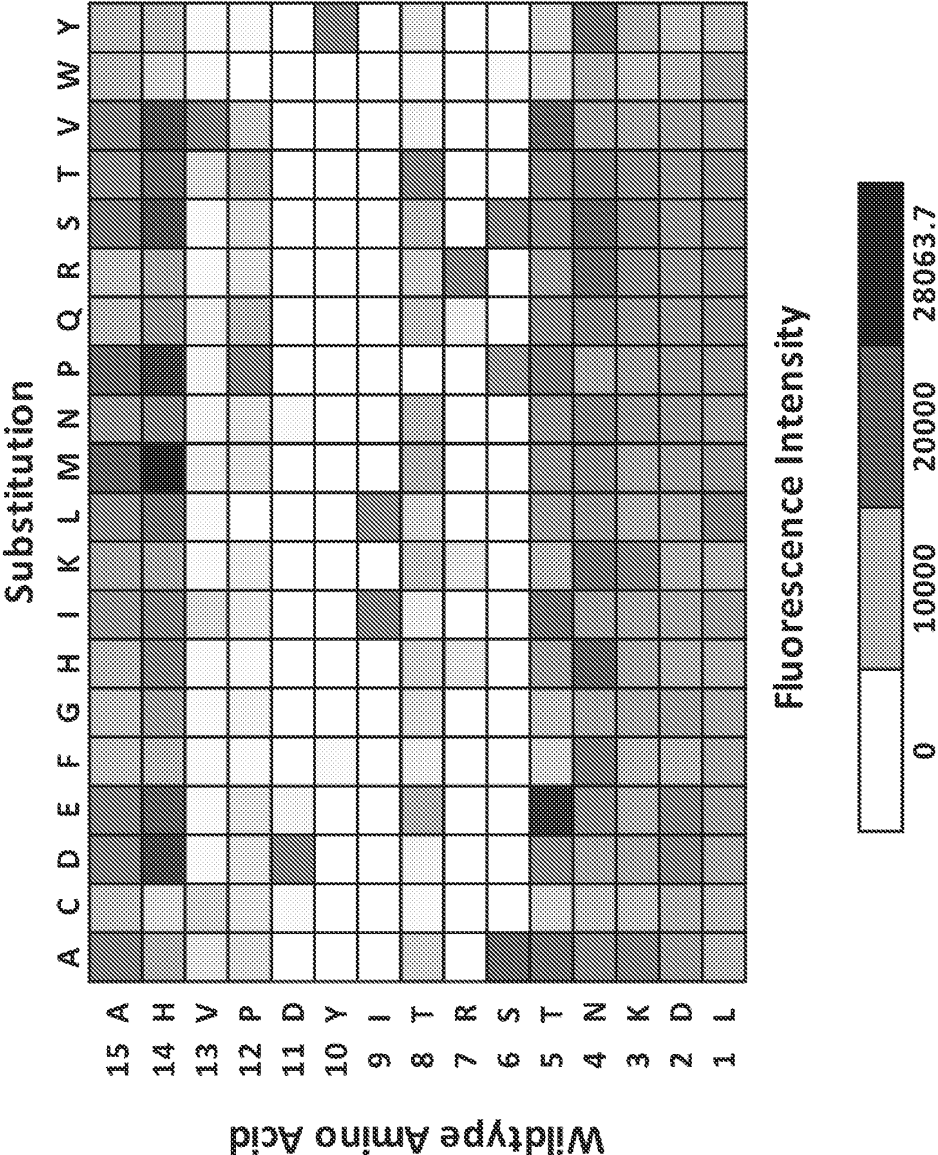


Figure 10. Ab5.5 Substitution Scan Amino Acid Plot

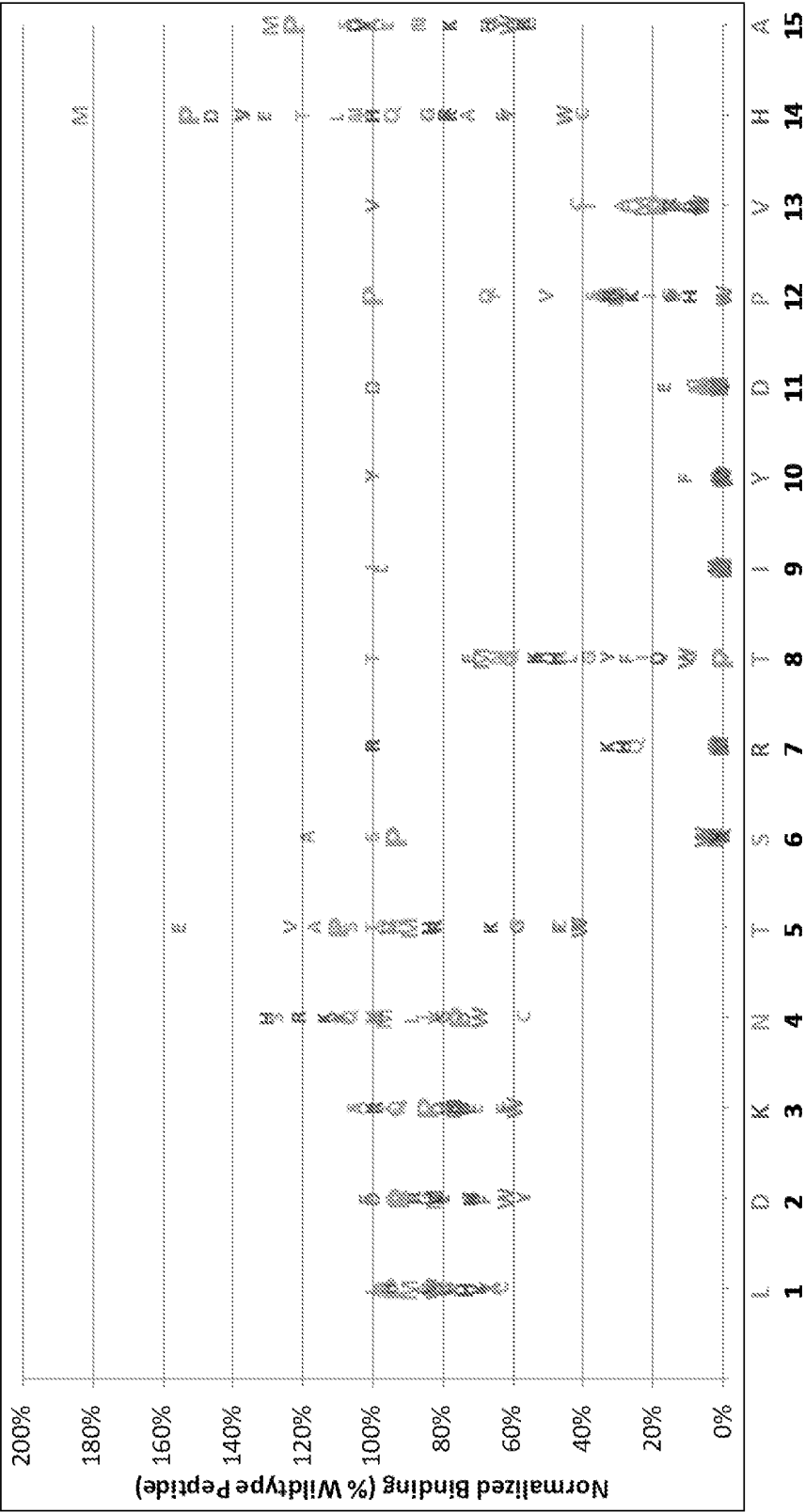


Figure 11. Ab5.5_var1 Substitution Scan Heatmap

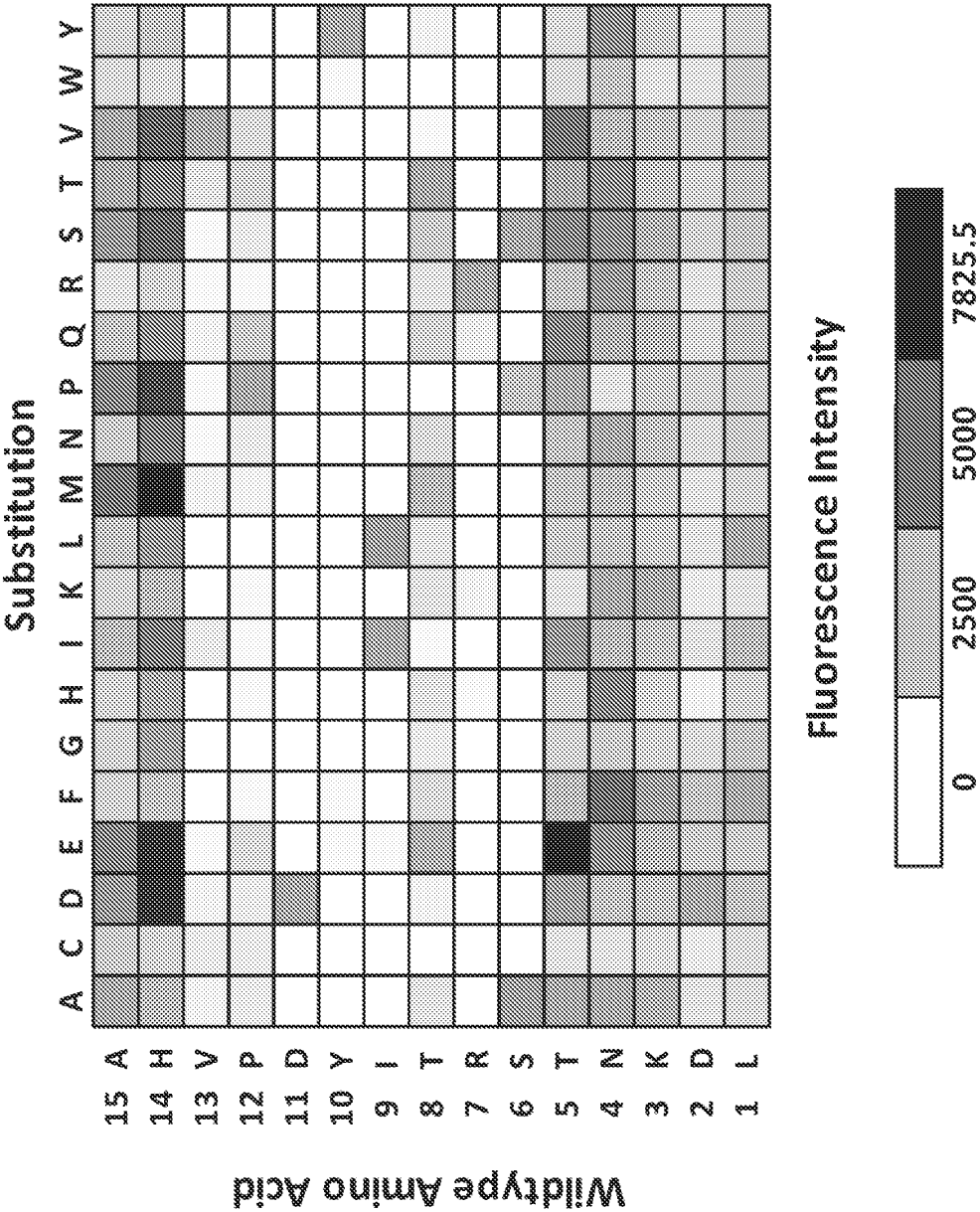


Figure 12. Ab5.5_var1 Substitution Scan Amino Acid Plot

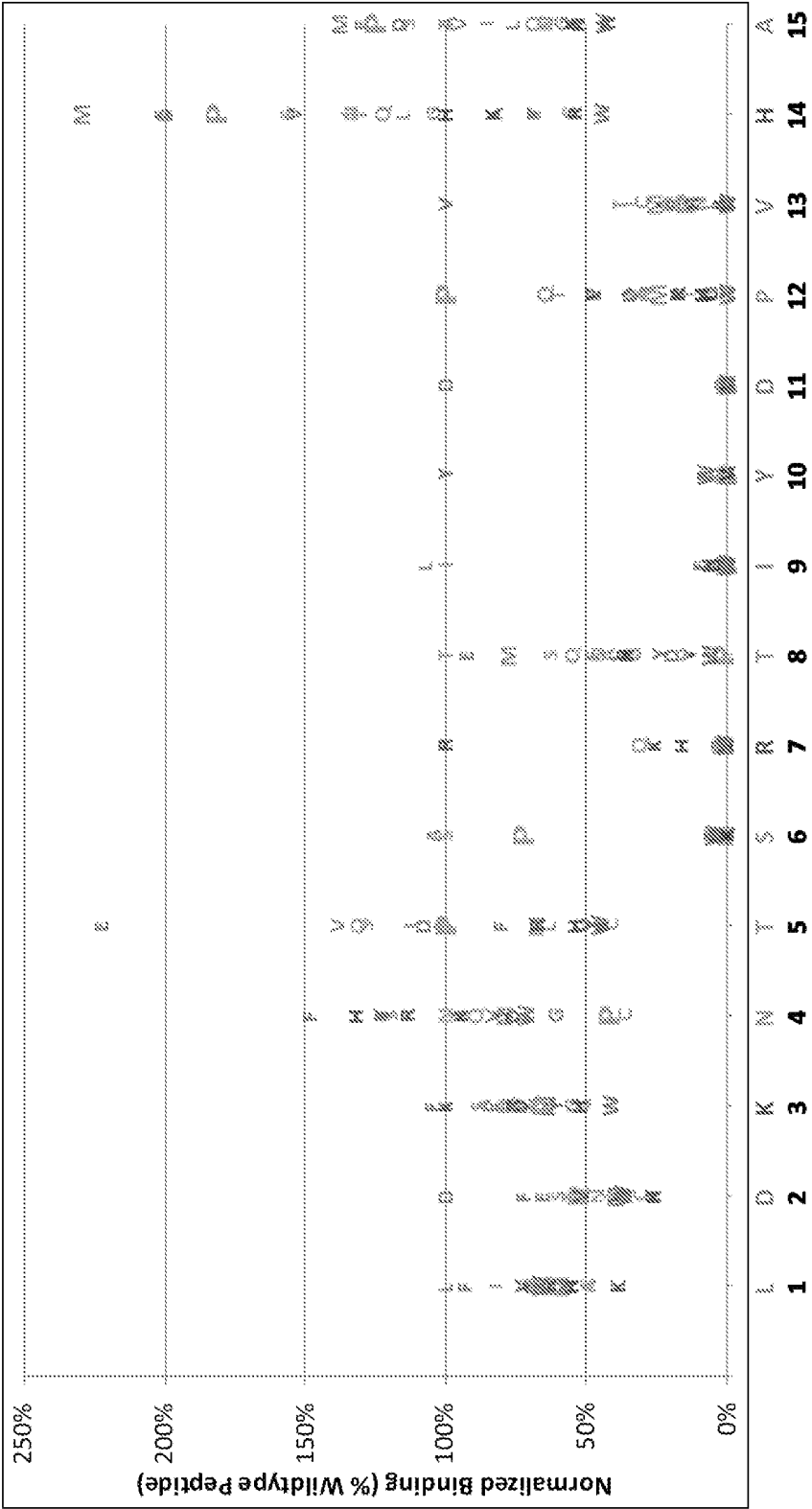


Figure 13. Canonical Wnt signaling in HEK 293 STF cell is inhibited by Ab5.5_var1

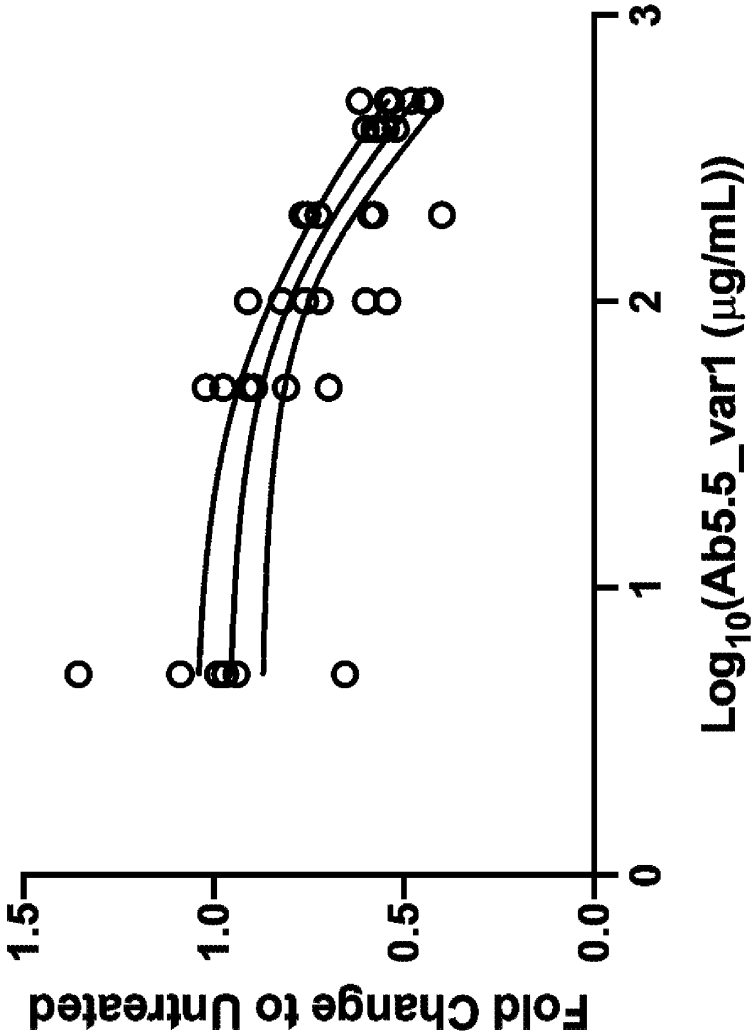


Figure 14. RYK mRNA expression in cholangio carcinoma

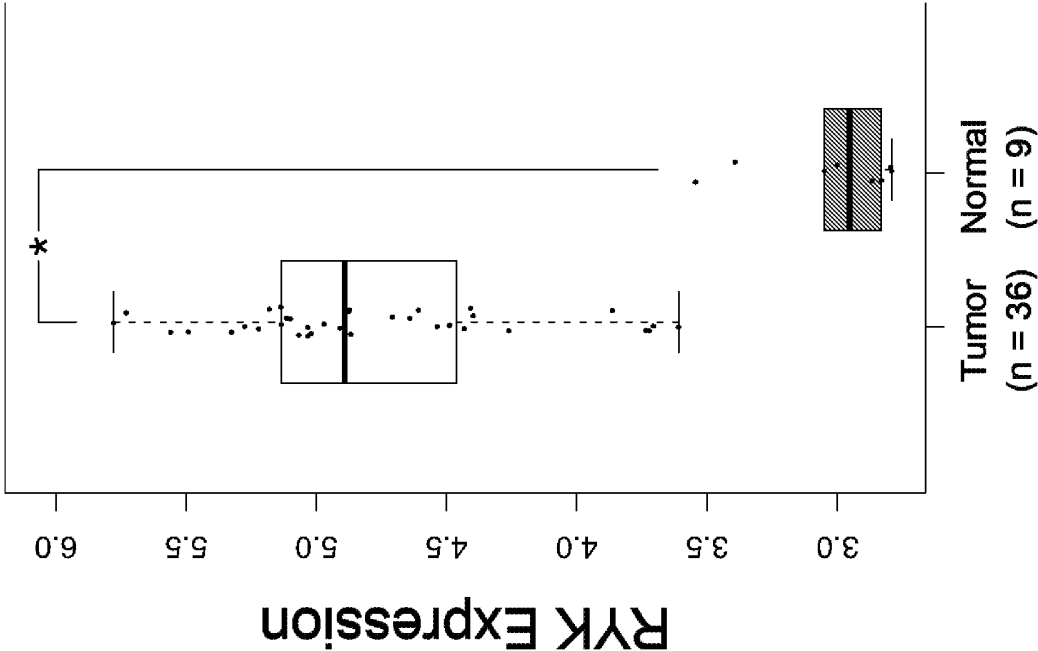


Figure 15. Ryk mRNA expression in lymphoid neoplasm diffuse large B-cell lymphoma

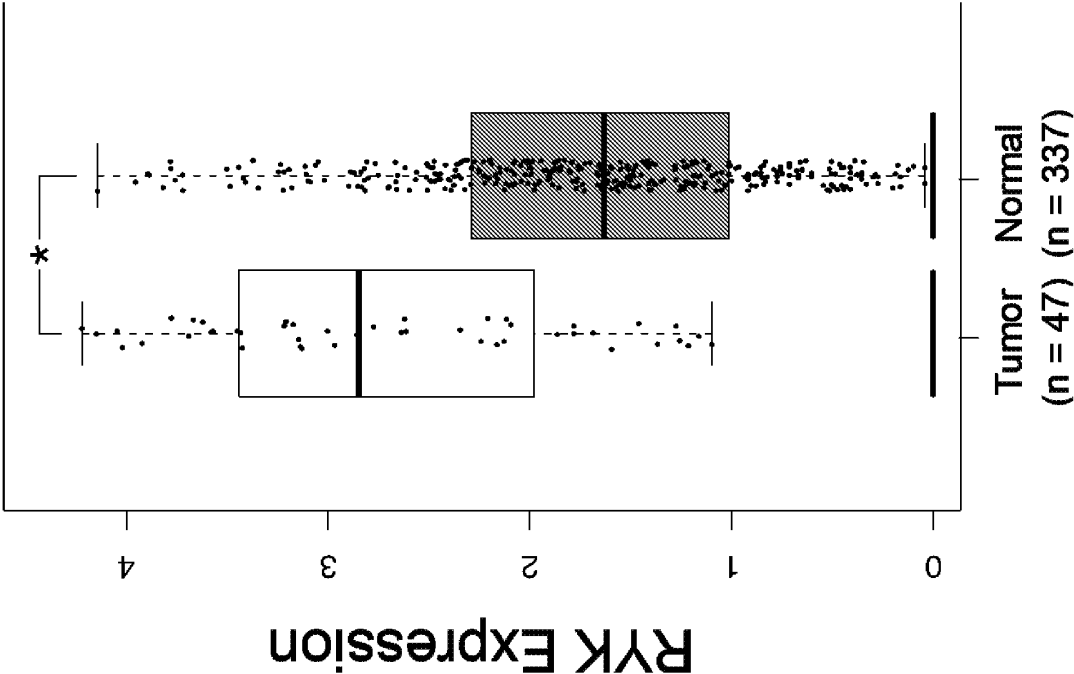


Figure 16. Ryk mRNA expression in glioblastoma multiforme

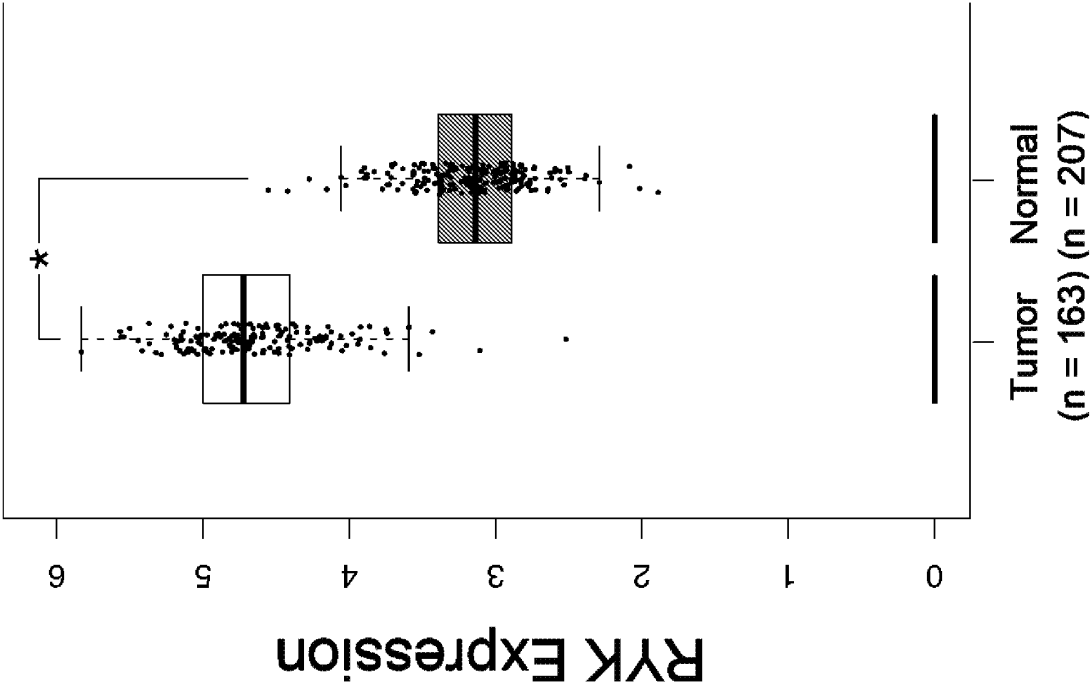


Figure 17. Ryk mRNA expression in head and neck squamous cell carcinoma

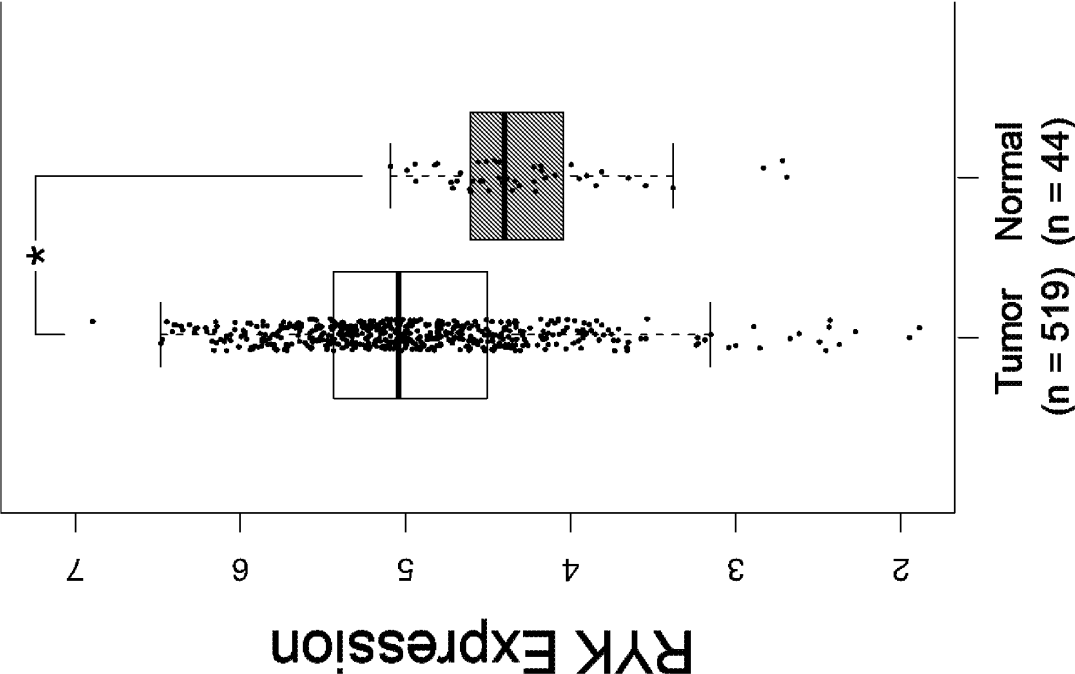


Figure 18. Ryk mRNA expression in acute myeloid leukemia

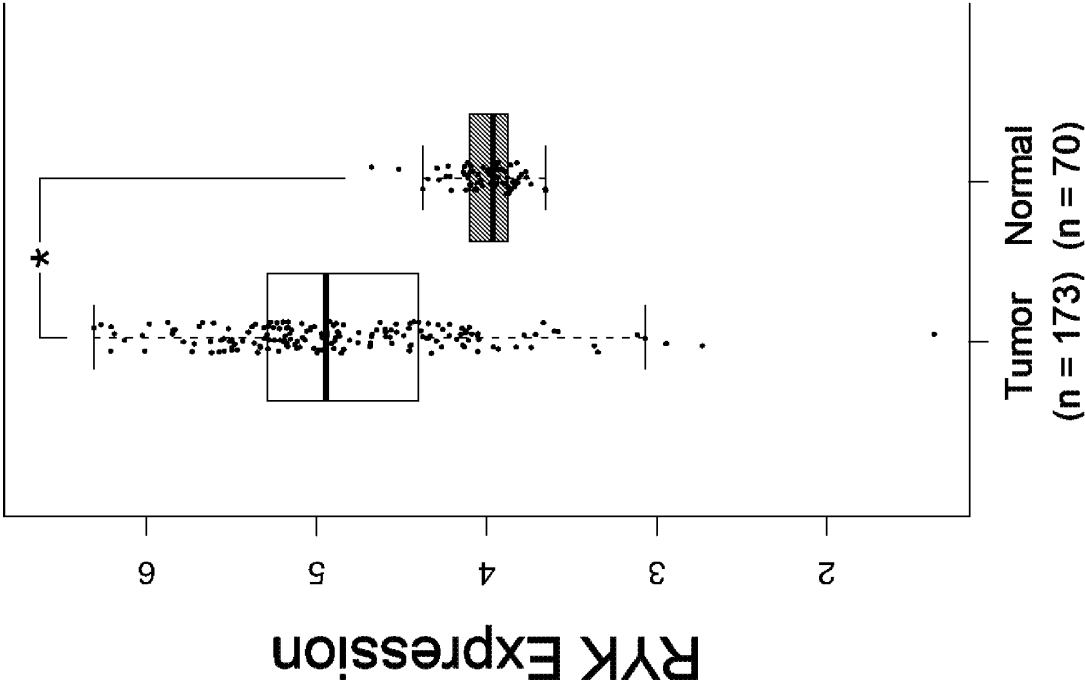


Figure 19. Ryk mRNA expression in lower grade glioma

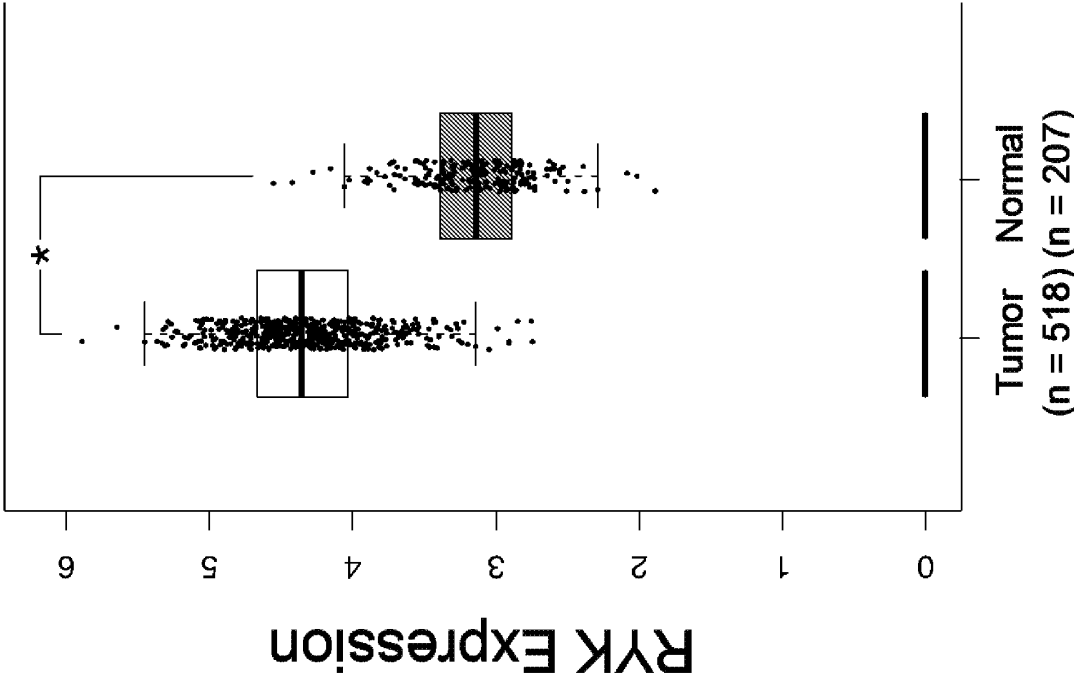


Figure 20. Ryk mRNA expression lung squamous cell carcinoma

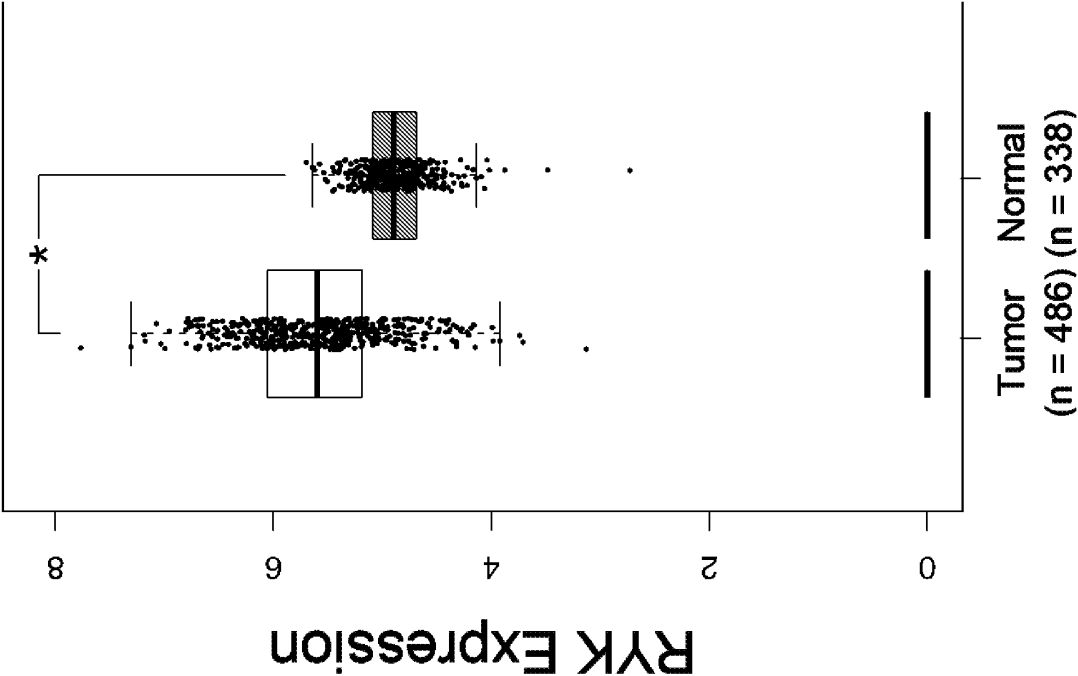


Figure 21. Ryk mRNA expression in pancreatic adenocarcinoma

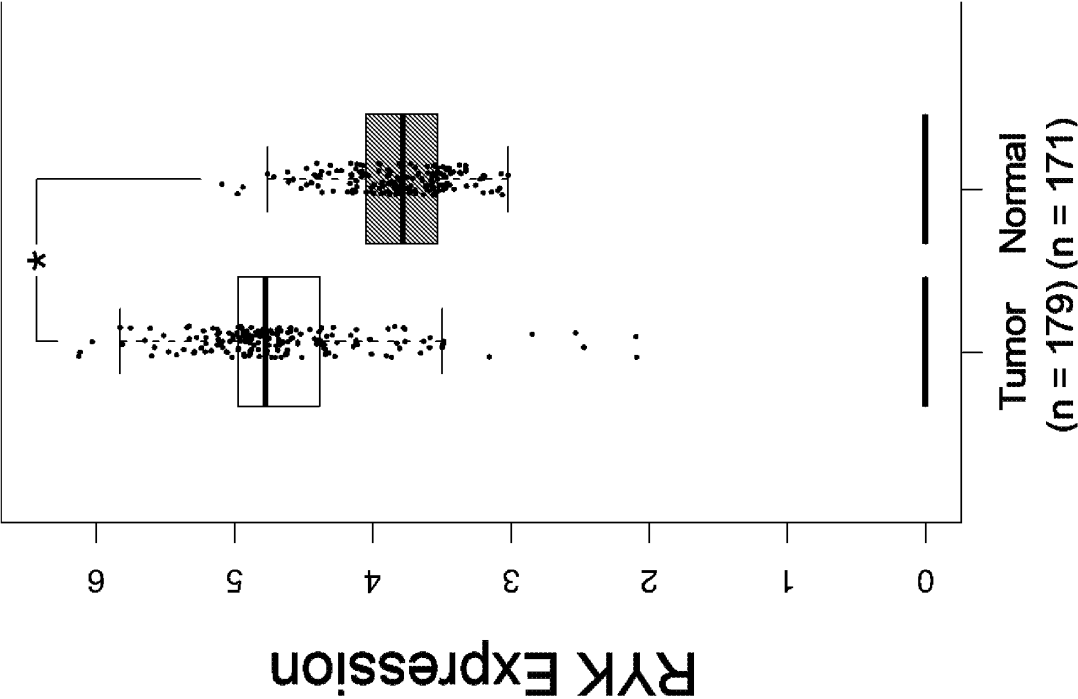


Figure 22. Ryk mRNA expression in thymoma

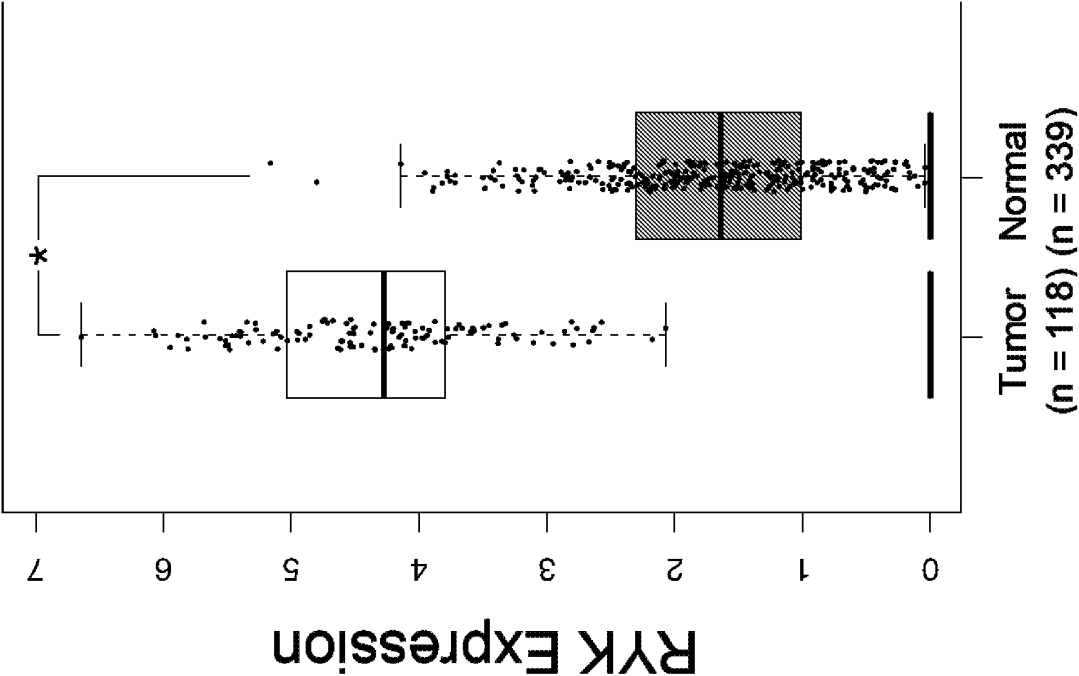


Figure 23. High Ryk mRNA levels are associated with poor survival in lower grade glioma

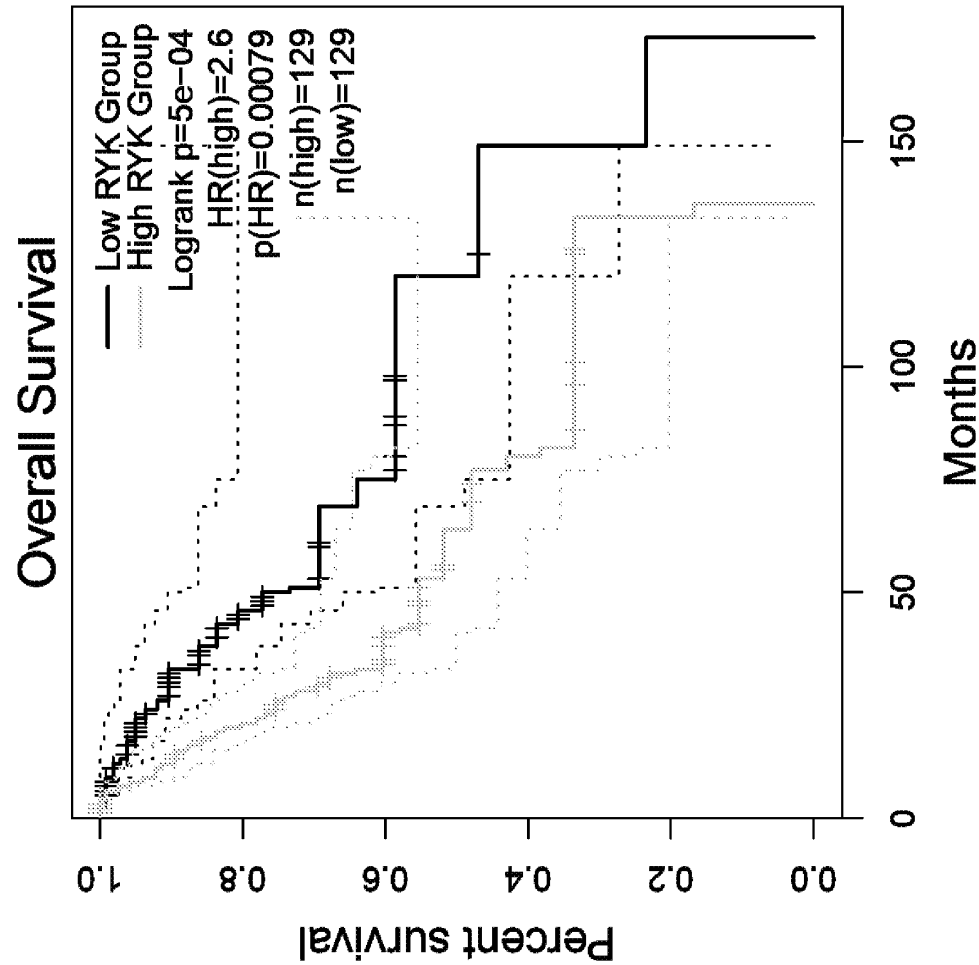


Figure 24. High Ryk mRNA levels are associated with poor survival in pancreatic adenocarcinoma

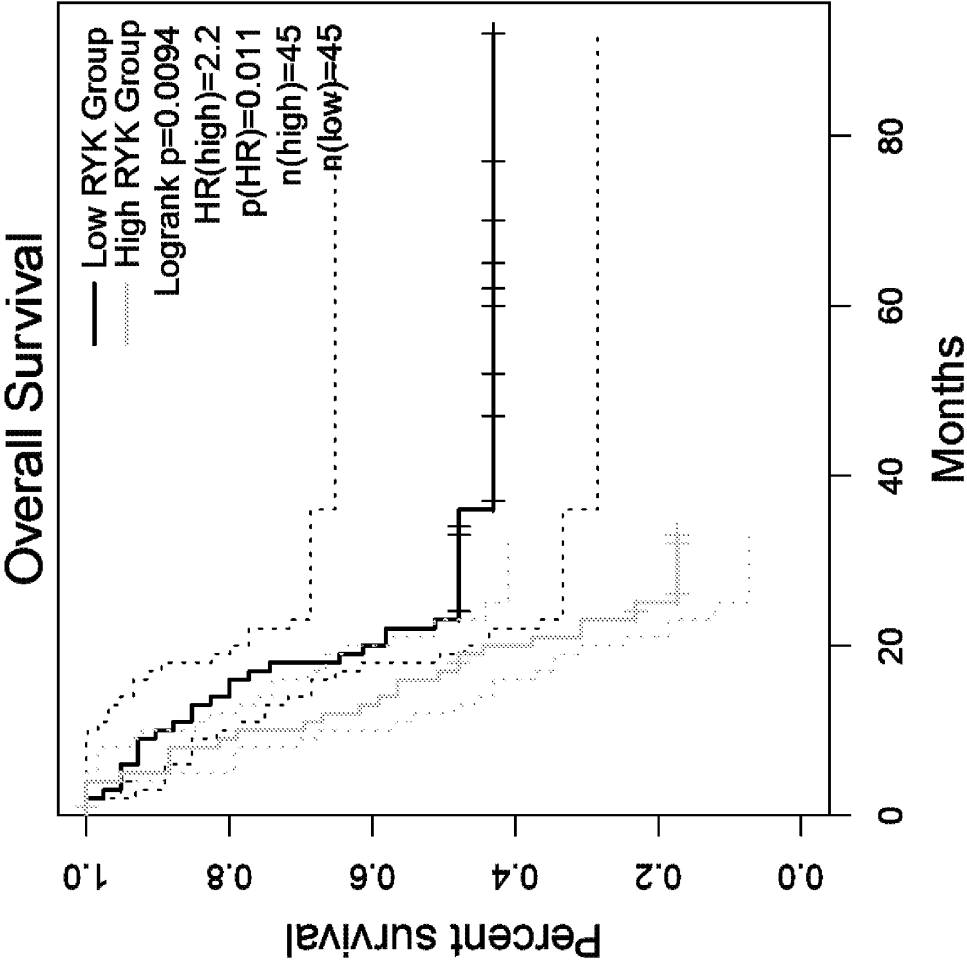


Figure 25.

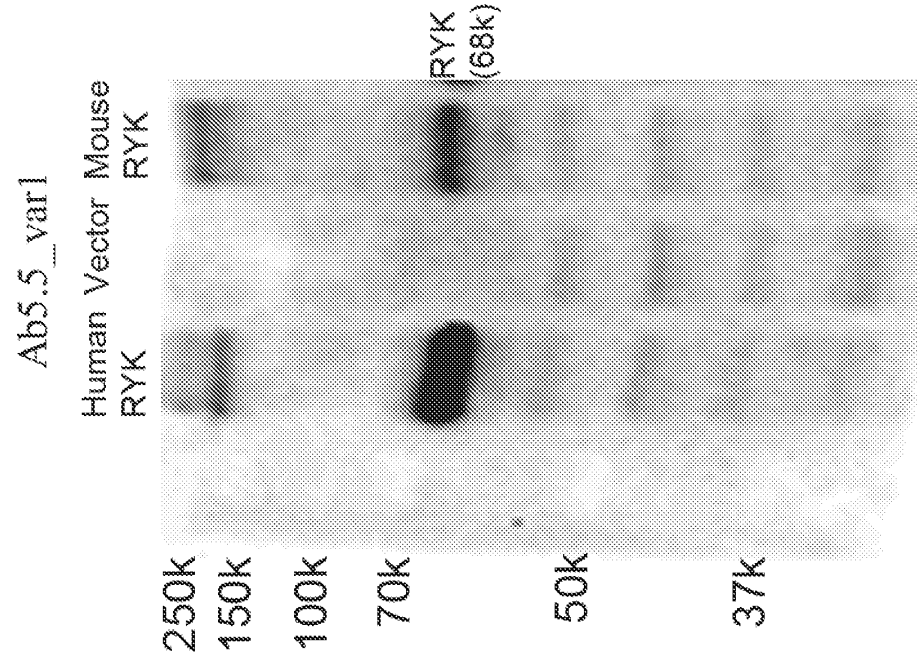


Figure 26.

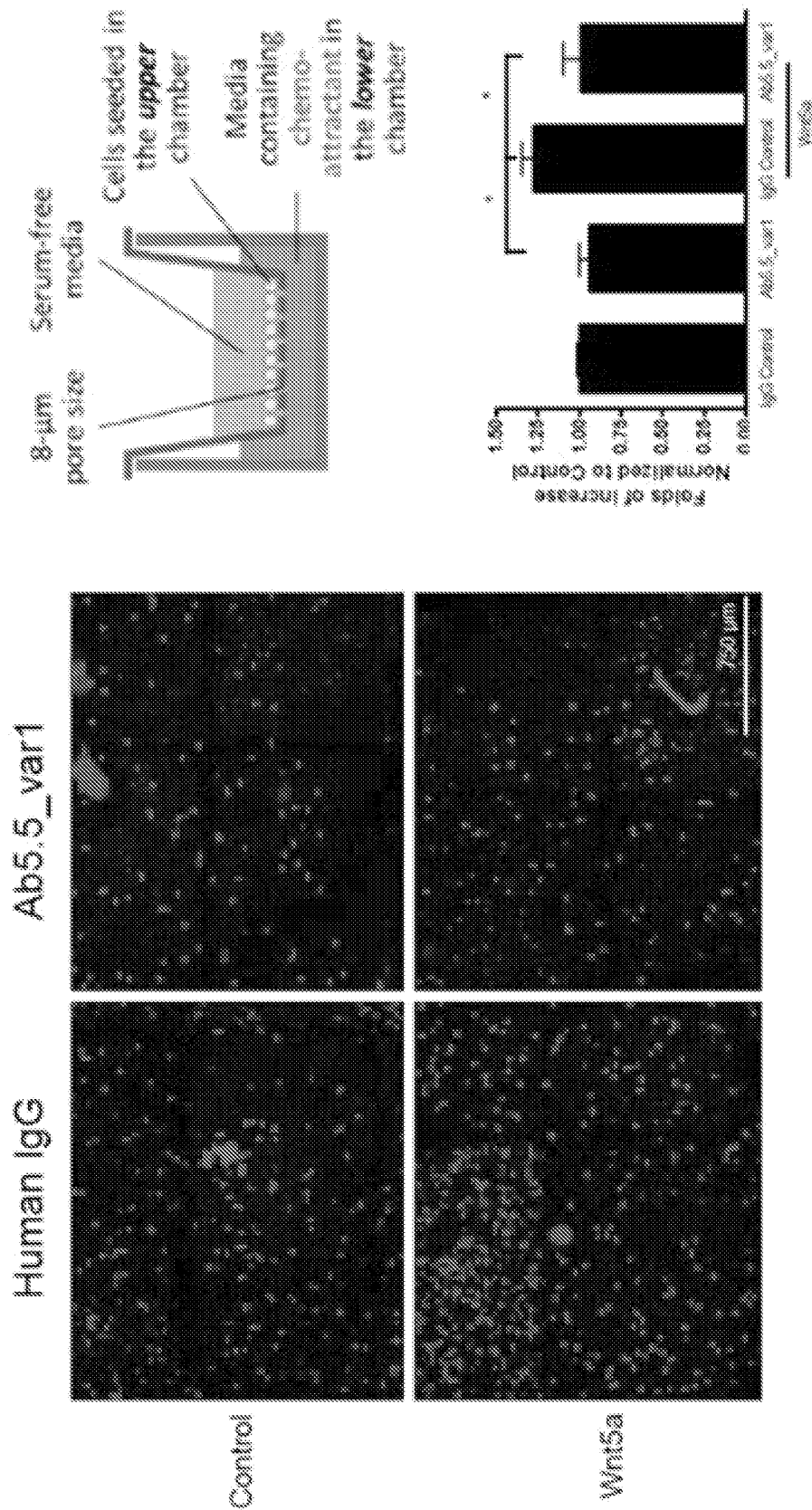


Figure 27.

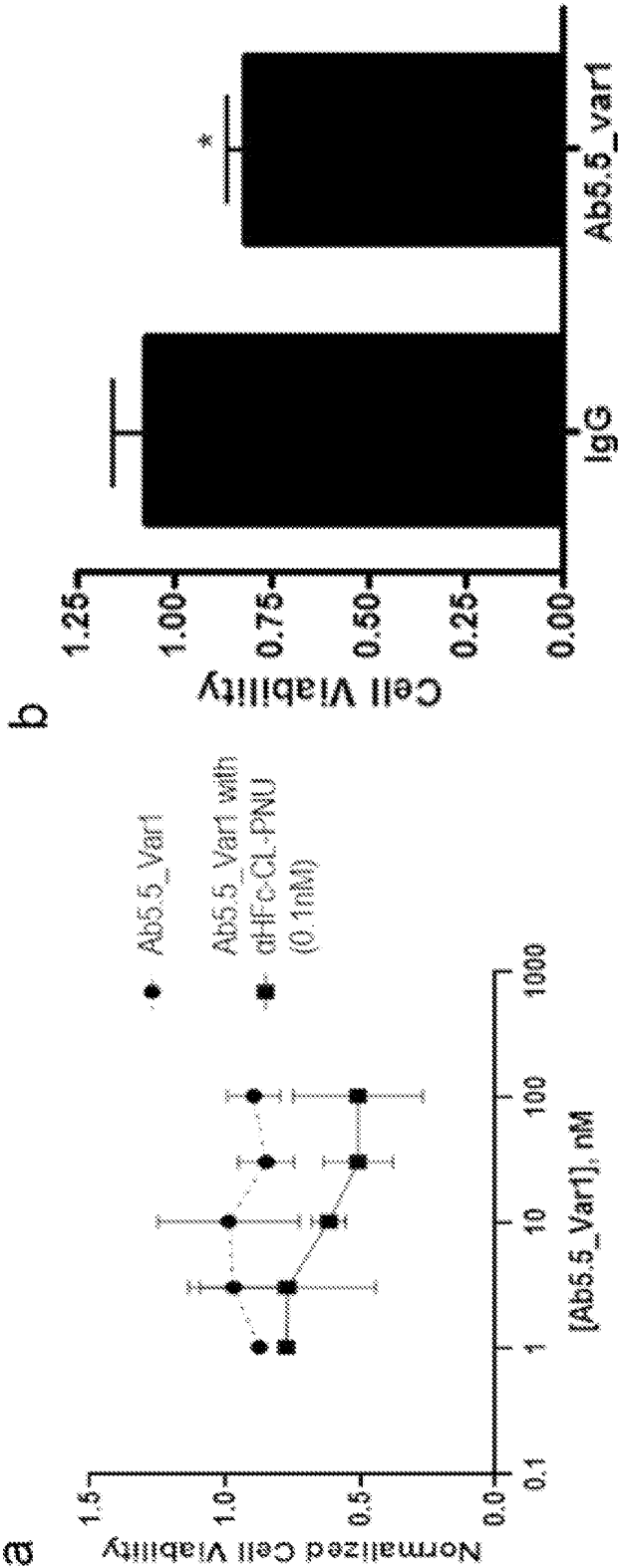


Figure 28.

