

**Table S4. Sequences of  $V_H1-46$ -Derived bNABs from Individual IDC561, Related to Figures 1 and 2**

**A**

Clone	Antibody	FWR1	CDR1	FWR2	CDR2	FWR3	CDR3	FWR4
	<b>IGHV1-46*01</b>	QVQLVQSGAEVKKPGASVKVSCKASGY	-----TFTSYMHVWRQAPGQGLEWMGI	INPSSGGTSTYAKQKQGRVMTDRD	TSTSTVVMELSSLRSEDTAVYYCAR	-----		
4.1	561_01_18	.GR.F.....R.....RI.R.DDDPYTDDD..K.WT..I.....RP.L.V.S.HFARPI.SY..RD.L.L..S.LTA..L..KG.QPD.SGI.F...DPFGDRAP---HNYHMDVWGGGTAVIVSS						
4.1	561_01_55	.RR.F...T...R.....I..R.DDDPYTDDD..K.T..I.....PP.L.V.S.HFARPI.SY..RD.L.L..S.LTA..F..RG.QPD..GI.F...DPFGDMYP---HNYHMDVWGGGTAVIVSA						
4.1	561_01_21	.RR.F...T...R.....I..R.DDDPYTDDD..K.T..I.....RP.L.V.S.HFARPI.SY...D.L.L..S.LTA..F..RG.QPD..GI.F...DPFGDMYP---HNYHMDVWGGGTAVIVSA						
4.1	561_01_33	.GR.F...T...R.....I..R.DDDPYTDDD..K.T..I.....RP.L.V.S.HFARPI.SY..RD.L.L..S.LTA..F..RG.QPD..GI.F...DPFGDMYP---HNYHMDVWGGGTAVIVSA						
4.1	561_01_54	.GR.F...T...R.....I..R.DDDPYTDDD..K.T..I.....RP.L.V.S.HFARPI.SY...D.L.L..S.LTA..F..RG.QPD..GI.F...DPFGDMYP---HNSHMDVWGGGTAVIVSA						
4.1	561_02_10	.GR.F...T...R.....I..R.DDDPYTDDD..K.HT..I.....RP.L.V.S.HYARPI.SY..D.L.L..S.LTA..F..RG.QPD..GI.F...DPFGNMP---HNYHMDVWGGGTAVIVSA						
4.1	561_02_22	.GR.F...T...R.....I..R.DDDPYTDDD..K.T..I.....RP.L.V.S.HFARPI.SY..RD.L.L..S.LTA..F..RG.QPD..GI.F...DPFGDMYP---HNYHMDVWGGGTAVIVSA						
4.1	561_02_27	.GR.F...T...R.....I..R.DDDPYTDDD..K.T..I.....RP.L.V.S.HYARPI.SY..RD.L.L..S.LTA..F..RG.QPD..GI.F...DPFGDMYP---HNYHMDVWGGGTAVIVSA						
4.1	561_02_47	.RR.F...T...R.....I..R.DDDPYTDDD..K.T..I.....RP.L.V.S.HYARPI.SY...D.L.L..S.LTA..F..RG.QPD..GI.F...DPFGDMYP---HNYHMDVWGGGTAVIVSA						
4.1	561_03_59	.RR.F...T...R.....RI.R.DDDPYTDDD..K.WT..I.....RP.L.V.S.HFARPI.SY...D.L.L..S.LTG..L..KG.QLD.SGI.F...DPFGDRAP---HNYHMDVWGGGTAVIVSS						
4.1	561_05_18	.RR.F...T...R.....I..R.DDDPYTDDD..K.T..I.....RP.L.V.S.HFARPI.SY...D.L.L..S.LTA..F..RG.QPD..GI.F...DPFGDMYP---HNYHMDVWGGGTAVIVSA						
4.1	561_08_10	.GR.F...T...R.....RI.R.DDDPYTDDD..K.WT..I.....RP.L.V.S.HFARPI.SY..RD.L.L..S.LTA..L..KG.QPD.SGI.F...DPFGDRAP---HNYHMDVWGGGTAVIVSS						
4.1	561_09_23	.AH.F...L..R.....RI.R.DDDPYTDDD..K.T..I.....RP.L.V.S.HFARPI.SY...D.L.L..S.LTA..L..R...LD..GI...DPFGERAP---HNYHMDVWGGGTAVIVSS						
4.1	561_10_07	.GRFF.....R.....RI.R.DDDPYTDDD..K.WT..I.....RP.L.V.S.HFARPI.SY..RD.L.L..S.LTA..L..QG.QPD.SGI...DPFGDRAP---HNYHMDVWGGGTAVIVSS						
4.2	561_08_52	---.W.GG..R.....RI..QCPED-----K..I.....R...L.MVS.H..RPFHTSE.RD.L.....IHET.HH.V..G.GVA.SGT.F...DPLGEKSPA---YSHHMDVWGGGTAVIVSS						
4.2	561_09_89	---.W.GG..R.....RI..QCPED-----K..I.....R...L.MVS.H..RPFHTSE.RD.L.....EIHET.HH.V..G.GVG.SGT.F...DPLGEKSPA---YSHHMDVWGGGTAVIVSS						
4.3	561_09_71	---.A..GG.....I..VTPES-----K.WL.....F..L.VVS.H..RPMF.N..RD.L.L..S.LTA..I.H.T.H...RG.T.D..I.....DSFGETFRHSGDQPYQMDVWGGGTAVIVSS						
4.4	561_01_23	---.GG.RR.....I..ETPE-----K.WL..L.....R.....VVS.H..RPMF.FE.RD.L.L..S.LTA..I.H.T.H...RG.T.D...F...DSFGETFRG-HDQPYQMDVWGGGTAVIVSS						
4.4	561_01_29	---.GG.RR.....I..ETPE-----K.WL..L.....R.....VVS.H..RPMF.FE.RD.L.L..S.LTA..I.H.T.H...RG.T.D...F...DSFGETFRG-HDQPYQMDVWGGGTAVIVSS						
4.4	561_02_12	---.GG.RR.....I..ETPED-----K.WL..L.....R.....VVS.H..RPMF.FE.RD.L.L..S.LTA..I.H.T.HF...RG.T.D...DPFGETFRG-HDQPYQMDVWGGGTAVIVSS						
4.4	561_02_21	---.GG.RR.....I..ETPE-----K.WL..L.....R.....VVS.H..RPMF.FE.RD.L.L..S.LTA..I.H.T.H...GG.TLD...DPFGETFRG-HDQPYQMDVWGGGTAVIVSS						
4.4	561_03_07	---.GG.RR.....I..ETPED-----K.WL..L.....R.....VVS.H..RPMF.FE.RD.L.L..S.LTA..I.H.T.HF...RG.T.D...DPFGETFRG-HDQPYQMDVWGGGTAVIVSS						
4.4	561_03_78	---.GG.RR.....I..ETPE-----K.WL..L.....R.....VVS.H..RPMF.FE.RD.L.L..S.LTA..I.H.T.H...GG.T.D...DPFGETFRG-HDQPYQMDVWGGGTAVIVSS						

**B**

Clone	Antibody	FWR1	CDR1	FWR2	CDR2	FWR3	CDR3	FWR4
	<b>IGKV3-20*01</b>	EIVLTQSPGTLSPGERATLSCRASQVSSSYLAWYQKPKQAPRLLIYGASSRATGIPDRF--SGSGSGTDFTLTISRLEPEDFAVYYCQYQYGS-SF-----						
4.1	561_01_18	.V.....AI..V...D.VI.....GLD..H...RF.R..I.T.V.F.T.N..R.T.....A.....V.....T.....R..G-T.ITFGGGTTLDDKK						
4.1	561_01_55	.A.....AI..V...D.VI...K.EGL...D...RF.G..I.T.V.F...N..R.T.....N.V.....T.....R..G-T.ITFGGGTTLDDKK						
4.1	561_01_21	.V.....AI..V...D.VI...K.EGL...D...RF.G..I.T.V.F.T.T..R.T.....V.....T.....R..G-T.ITFGGGTTLDDKK						
4.1	561_01_33	.V.....AI..V...D.VI...K.EGL...D...RF.G..I.T.V.F.T.N..R.T.....N.VQ.....T.....R..G-T.ITFGGGTTLDDKK						
4.1	561_01_54	.V.....AI..V...D.VI...K.EGL...D...RF.S..I.T.V.F...N..R.T.....N.V.....T.....R..G-T.ITFGGGTTLDDKK						
4.1	561_02_10	.V.....AI..V...D.VI...K.EGL...D...RF.R..I.T.V.F...T..R.T.....N.V.....T.....R..G-T.ITFGGGTTLDDKK						
4.1	561_02_22	.V.....AI..V...D.VI...K.EGL...D...RF.G..I.T.V.FAT.N..R.T.....KVQ.....T.....R..G-T.ITFGGGTTLDDKK						
4.1	561_02_27	.V.....AI..V...D.VI...K.EGL...D...RF.G..I.T.V.F...N..R.T.....N.V.....T.....R..G-T.ITFGGGTTLDDKK						
4.1	561_02_47	.V.....AI..V...D.VI...K.EGL...D...RF.S..I.T.V.F...N..R.T.....A.....N.V.....T.....R..G-T.ITFGGGTTLDDKK						
4.1	561_03_59	.V.....AI..V...D.VSF...EGLD.T.Q...RF.R..I.T.V.FAT.N..R.T.....A.....N.V.....T.....R..A-T.ITFGGGTTLDDKK						
4.1	561_05_18	.V.....AI..V...D.VI...K.EGL...D...RF.G..I.T.V.F.T.T..R.T.....V.....T.....R..G-T.ITFGGGTTLDDKK						
4.1	561_08_10	.V.....AI..V...D.VI...GLD..H...RF.R..I.T.V.F.T.N..R.T.....A.....V.....T.....R..G-T.ITFGGGTTLDDKK						
4.1	561_09_23	.V.....AI..A...D.VV...EGLD..Q...RF.D..I..VLF.V.N..R.T.....G..A.....V.R.....T...RF.A-T.ITFGGGTTLDDKN						
4.1	561_10_07	.V.....AI..V...D.VI...EGLD.PTH...RF.R..I.T.V.F.T.N..R.T.....EA.....T.V.....T.....R..G-T.ITFGGGTTLDDKK						
4.2	561_08_52	AV.....V...V...T.I.....HGLDTRHVT.F...R.....FATYR..S.VS...RATD..A..N...TAV..A..T.F..T..AIT.ITFGGGTRVLDK						
4.2	561_09_89	AV.....V...V...S.V...HGLDTRHVT.F...R.....FAT.R..S.VS...RATDG..A..N...TAV..A..T...T..AIT.ITFGGGTKLDK						
4.3	561_09_71	.P.....GF.VDH..F.KR..RP...FET.R..N.S...A.AEY...NV.....S...IT.LIFGGTRVDDK						
4.4	561_01_23	.P.....G.....R.GF.ADHV..F.K..RP...FE.R..S.T.E...G..PEY...T.V.....S...IT.LVFGGGTRVDDK						
4.4	561_01_29	.P.....GV.....R.GF.ADHV..F.K..RP...FET.R..S.T.E...G..PEY...T.V.....S...IT.LVFGGGTRVDDK						
4.4	561_02_12	.P.....V.....G.....R.GF.ADHV..F.K..RP...FE.R..S.T.E...PEY...T.V.A.....S...IT.LVFGGGTRVDDK						
4.4	561_02_21	.AL.....G.....R.GF.ADHV..F.K..RP...FE.R..S.T.E...PEY...T.V.....S...IT.LVFGGGTRVDDK						
4.4	561_03_07	.P.....V.....G.....R.GF.ADHV..F.K..RP...FE.R..S.T.E...PEY...T.V.....S...IT.LVFGGGTRVDDK						
4.4	561_03_78	.P.....G.....R.GF.ADHV..F.K..RP...FE.R..S.T.E...PEY...T.V.....S...IT.LVFGGGTRVDDK						