

Table S1: List of CDR3 protein sequences and their expression frequencies in the analyzed cell samples

	IgM (n=34)	IgG (n=37)	Igk (n=15)	
TAM-1	ARIPAYCASTSCYEDGWGY 26 (76%)	ARGRGLRFLWFIDY 18 (49%)	QQYYPYSGS 7 (47%)	
	ARPMVARGARDAFDI 5 (15%)	ARIPGSYFTGRYYFDY 7 (19%)	QQYDSSIT 6 (40%)	
	ASRIIGTINC 2 (6%)	ARGPSVSGYSYFFKGMVDV 6 (16%)	LQYYSYPWT 2 (13%)	
	ARIPGSYFTGRYYFDY 1 (3%)	AKELSVAAATDALDI 3 (8%)		
	ARGPSVSGYSFFYKGMVDV 2 (5%)			
	ARGSGGLTITFGGVIPYFDY 1 (3%)			
	IgM (n=39)	IgG (n=34)	Igk (n=28)	Igλ (n=36)
TAM-2	ARVPINVDILTGTDY 37 (95%)	ARGSRIEVDLWNPQEAAFDI 20 (59%)	QQYDNLPLYT 5 (18%)	LLTYGGARV 28 (78%)
	ARVPINVDILTGTDC 1 (3%)	ASAGMNYYYGMVDV 10 (29%)	QQYDNLISALT 5 (18%)	QVWDTSSDHRV 5 (14%)
	ARVPINVDILTGTDY 1 (3%)	AREHSRGLSFDY 2 (6%)	QHYYGSPGGTMYT 3 (11%)	LLAYGGARV 1 (3%)
		AKARREYYGVGNVFFPE 2 (6%)	QQYSSSWWT 3 (11%)	QAWDSSTVV 1 (3%)
			QQYNSYLYT 3 (11%)	QVWDSDDHVV 1 (3%)
			QQYKWPPLT 2 (7%)	
			QQYNSYPLT 2 (7%)	
			HHYGTSPYT 1 (4%)	
			MQALQTPA 1 (4%)	
			QQYESFPPT 1 (4%)	
			QQYNSYSLT 1 (4%)	
			QQYNSYSYT 1 (4%)	
		IgM (n=51)		Igk (n=36)
TAM-3	ARVPINVDILTGTDY 37 (73%)		QQYNTYPLT 19 (53%)	
	ARGYYGMVDV 12 (24%)		QQYDNLPLYT 10 (28%)	
	ARVPINVDILTGTDY 1 (2%)		QQYDNLISALT 6 (17%)	
	AGVPINVDILTGTDY 1 (2%)		QQSYSTPRT 1 (3%)	
		IgG (n=39)	Igk (n=35)	
BCI-1		ARDPYYYGSSSTFDP 2 (5%)	KQYNAYPIT 2 (6%)	
		AREALPYDFWGDHYPRDSVEV 2 (5%)	QQSYSTPRT 2 (6%)	
		ARGRCGGDCRLRYYFDY 2 (5%)	QQSYSTPYT 2 (6%)	
		ARVIAIVTSTGLDY 2 (5%)	QQSYSTSLT 2 (6%)	
		AALKVGGTRSFYD 1 (3%)	QQYDNLPRY 2 (6%)	
		AGVRGDSFILFVF 1 (3%)	QQYGNISPLT 2 (6%)	
		AKDLGHLVVVITASKIDR 1 (3%)	LQDYNYPRT 1 (3%)	
		AKDTAISGGEYGMVDV 1 (3%)	LQHDNPFPLT 1 (3%)	
		AKHTRGSVFLGTLDI 1 (3%)	LQHDNFPWT 1 (3%)	
		AKLTDY 1 (3%)	QQSYSTLT 1 (3%)	
		AKLVSN 1 (3%)	QQSYSTPRAT 1 (3%)	
		ARDFLYDFSAFMPKAFDS 1 (3%)	QQSYSTPWT 1 (3%)	
		ARDKGTSGGAFDI 1 (3%)	QQSYSTRWT 1 (3%)	
		ARDNFAGGFEGDYYYGLDV 1 (3%)	QQSYSTSWT 1 (3%)	
		AREALPYDFWGDYPRDSVEV 1 (3%)	QQYTSFPHT 1 (3%)	
		AREGVNLLS SDGAGARHYLDY 1 (3%)	QQYDNLIT 1 (3%)	
		AREKPHLYFDY 1 (3%)	QQYDNLPGT 1 (3%)	
		AREYIWRFLRWFD 1 (3%)	QQYDNLPLYT 1 (3%)	
		ARGKSEYRDAFDM 1 (3%)	QQYDNLPPR 1 (3%)	
		ARGTRNNWIPGFDH 1 (3%)	QQYDNLSSLT 1 (3%)	
		ARGTRNNWISVGFDL 1 (3%)	QQYSSSPWT 1 (3%)	
		ARHAGTYFDY 1 (3%)	QQYSSSELT 1 (3%)	
		ARLYPRPGITETRRFDP 1 (3%)	QQYGTSPPT 1 (3%)	
		ARNLYGTGTFED 1 (3%)	QQYNSYSGT 1 (3%)	
		ARVLSIRTQCVSGPCNAWFDP 1 (3%)	QQYNSYSPYT 1 (3%)	
		ARVSPMTVTTFDY 1 (3%)	QQYNTYPLT 1 (3%)	
		ASGYPWGNCPEKSEDY 1 (3%)	QQYYSTPLT 1 (3%)	
		GRHAGPTYFDY 1 (3%)	QQYYSTYT 1 (3%)	
		IKGGSRSGWYCGGDF 1 (3%)	QQYYSYPLT 1 (3%)	
		SVINPGGAIV 1 (3%)		
		VKDKSRGTYADAFDI 1 (3%)		
		VRGCTGDCVSGTDYYYGLDV 1 (3%)		
		VRVGRGPDYVWVFGY 1 (3%)		
	VRTGGCRDGATAICLQH 1 (3%)			
	VTTSSPWLVDWKGTPVTVSS 1 (3%)			
		IgG (n=18)	Igk (n=25)	
BCI-2		ARQPSIVRLSNLYYMDV 5 (28%)	QEYNSAPWT 2 (8%)	
		ARGQSSYYGHFDY 3 (17%)	QQYSVNSA 2 (8%)	
		ARHSSKGVVPSRPRWFLDL 2 (11%)	LQDYTYPLT 1 (4%)	
		ARQAGSSPLEH 2 (11%)	LQYERYWT 1 (4%)	
		AKGGYYHGGYWFDP 1 (6%)	QHYNLPPY 1 (4%)	
		ARHGLAVAGTRWFDP 1 (6%)	QHYNGYPYT 1 (4%)	
		ARTYSSGWYVFDY 1 (6%)	QKYNVPT 1 (4%)	
		TRRSRELWPPP 1 (6%)	QQANSFPLT 1 (4%)	
		TTELWLVPPEMLY 1 (6%)	QQNYRILT 1 (4%)	
		VALRYCSGSGCNWFDP 1 (6%)	QQSYSDPLT 1 (4%)	
			QQSYSSRT 1 (4%)	
			QQSYSTPLT 1 (4%)	
			QQTYSTPWT 1 (4%)	
			QQYDHPVA 1 (4%)	
			QQYSSPPLT 1 (4%)	
		QQYSSPPS 1 (4%)		
		QQYSSPRT 1 (4%)		
		QQYKSDYPVT 1 (4%)		
		QQYNSYPWT 1 (4%)		
		QQYNSYPYT 1 (4%)		
		QQYSRYSRK 1 (4%)		
		QQYSSSLWT 1 (4%)		
		QRYDNFPPT 1 (4%)		
		IgG (n=32)	Igk (n=26)	
		ARDGAVGRRGGYLDY 5 (16%)	QQSYSTPYT 3 (12%)	
		ARAVNGVFDY 3 (9%)	QQRSNWPLT 2 (8%)	
		VKAGLWGAQQYYAMDV 3 (9%)	QQSYSTLLT 2 (8%)	
		AKDDVGVGNWFTP 2 (6%)	QQYDNLQIT 2 (8%)	
		ARDRESSAWWEHENDAFDV 2 (6%)	HQTYRIPFT 1 (4%)	

BCI-3	ARKYDYHGISGYYFDY	2 (6%)	LEDYDYPWT	1 (4%)
	AGGRGYTYGYAY	1 (3%)	MQGTYWPPWT	1 (4%)
	AKEGGSRGFRPPGALYY	1 (3%)	QHYGDSPPIT	1 (4%)
	AKLRDGYNCSDY	1 (3%)	QYNSAPWT	1 (4%)
	AKVSYNSGYYYGMDV	1 (3%)	QQFNSYPLT	1 (4%)
	ARAYCGDDCPVGYYYGMDV	1 (3%)	QQFNSYPSLT	1 (4%)
	ARDYGSYPDY	1 (3%)	QQSYNIPRT	1 (4%)
	AREVINSWYHYFDS	1 (3%)	QQSYSTPLT	1 (4%)
	ARGFDGKVGGH	1 (3%)	QQSYSTPPVT	1 (4%)
	ARGFGNDTFMVGFDA	1 (3%)	QQSYSTPT	1 (4%)
	ARGGNWKGDDY	1 (3%)	QQSYSVPLT	1 (4%)
	ARGNRGEQFDSGGYCFWFDP	1 (3%)	QQYSSPLQGLT	1 (4%)
	ARGTQGNFVGGDC	1 (3%)	QQYSGYWT	1 (4%)
	ARSLDVGASMPFDY	1 (3%)	QQYYSTPLT	1 (4%)
GRGPYYDSGTYNAYIDN	1 (3%)	QQYYSTPRT	1 (4%)	
TTDGALRPYQFVY	1 (3%)	QQYYSPSTWT	1 (4%)	
	IgG (n=33)		Igk (n=35)	
BC	ARILRVAGFDY	4 (12%)	QQYNNWPPWT	2 (6%)
	ARMGGYAGENAFDV	2 (6%)	QQYNNWPTWT	2 (6%)
	AHSGWSTSVLEY	2 (6%)	QQYNNWPPYT	2 (6%)
	ARMVGSYGQGWLALYDS	2 (6%)	QQYYSYPT	2 (6%)
	ARFPMFRGVDY	2 (6%)	LQHNSYPYT	1 (3%)
	AHRGVGGRHCC	1 (3%)	MQGTHWPPWT	1 (3%)
	AQAWGIGGSGTSLDL	1 (3%)	MQTTRDVS	1 (3%)
	AHIKSLFTGSAGDYGMDV	1 (3%)	QHLNSYPR	1 (3%)
	ARIVNFHWFLNYFDY	1 (3%)	QYNNWPRGT	1 (3%)
	ARITGTTGYFDY	1 (3%)	QLFGTSQYT	1 (3%)
	ARMRPFSGNIGTYHLDC	1 (3%)	QQFNSYPLT	1 (3%)
	ARSGWSSVLED	1 (3%)	QQFYSLPLT	1 (3%)
	ARTLRREIGSYPFDF	1 (3%)	QQYDNLIMYT	1 (3%)
	ARSPGDDYGDYFFDY	1 (3%)	QQYHKWPPVT	1 (3%)
	AKALGRSGYGRFDY	1 (3%)	QQYNNWPPWFT	1 (3%)
	AREAGSDGRAFDI	1 (3%)	QQYNNWPPYT	1 (3%)
	AKYGEFMIVVPHFDY	1 (3%)	QQYNNWPQT	1 (3%)
	AKGTTNIDY	1 (3%)	QQYNNWPRT	1 (3%)
	AKDVRGGTDLDPDY	1 (3%)	QQYNNWPSGT	1 (3%)
	AKDIWRWAFDY	1 (3%)	QQYNSY	1 (3%)
	ARDSYSSGWYFDY	1 (3%)	QQYNSYPWT	1 (3%)
	AKGESGMDV	1 (3%)	QQYNSYSYT	1 (3%)
	ARIPGSYFTGRYFDY	1 (3%)	QQYNTYWT	1 (3%)
	ARDFGSYHRPIHWFDDL	1 (3%)	QQYQLPLT	1 (3%)
	ARQDYGDYRLGY	1 (3%)	QQYSSFPWT	1 (3%)
	ARVAVGRFLEWDHPRAWYFDL	1 (3%)	QQYTADSSWT	1 (3%)
			QQYYSTPRT	1 (3%)
			QQYYSTPWT	1 (3%)
		QQYYTPLT	1 (3%)	
		QQYNNWPPLT	1 (3%)	
		QQYDNLFT	1 (3%)	