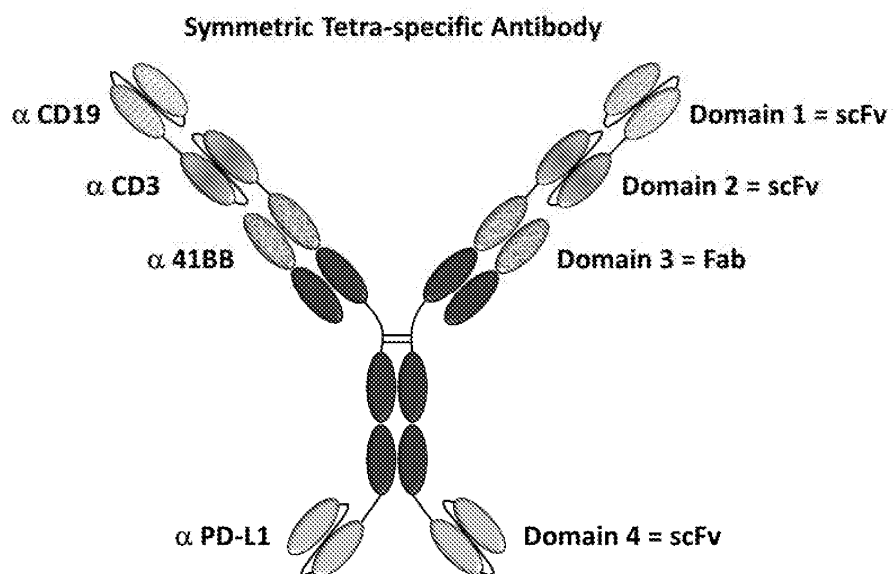


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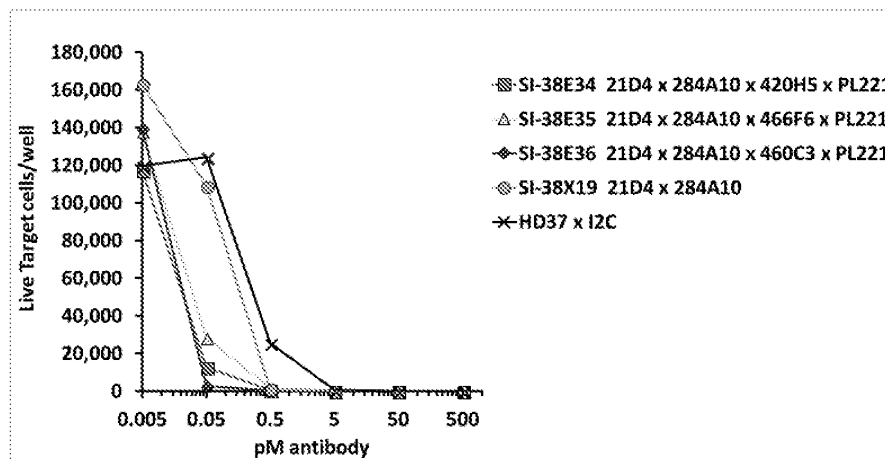
FIGURE 1. General format of example tetra-specific antibody



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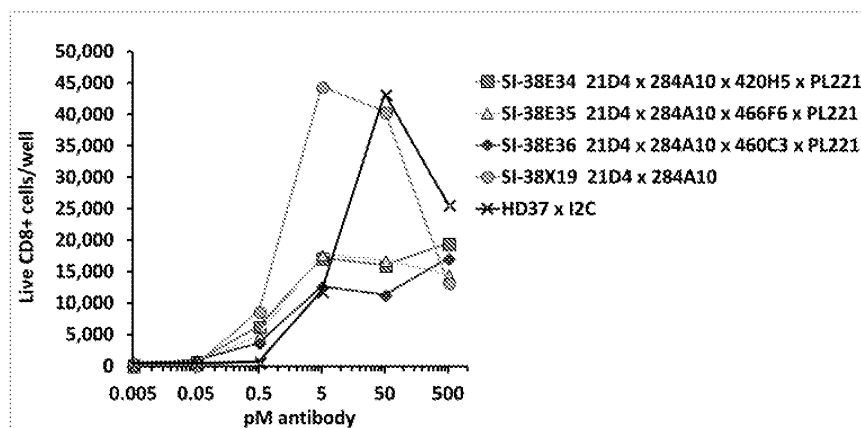
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FIGURE 2. Re-directed T cell cytotoxicity (RTCC) assay with PBMC as effectors and B-Acute Lymphoblastic Leukemia (B-ALL) cell line Kasumi-2 as targets



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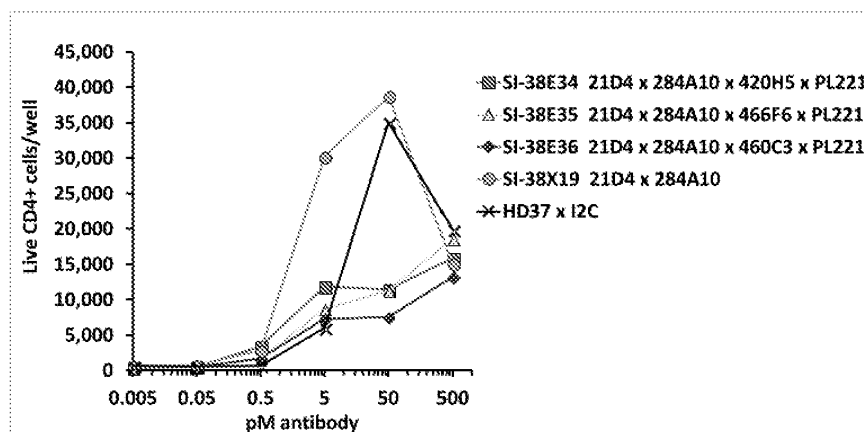
FIGURE 3. Proliferation of CD8+ T cells induced by tetra-specific antibodies



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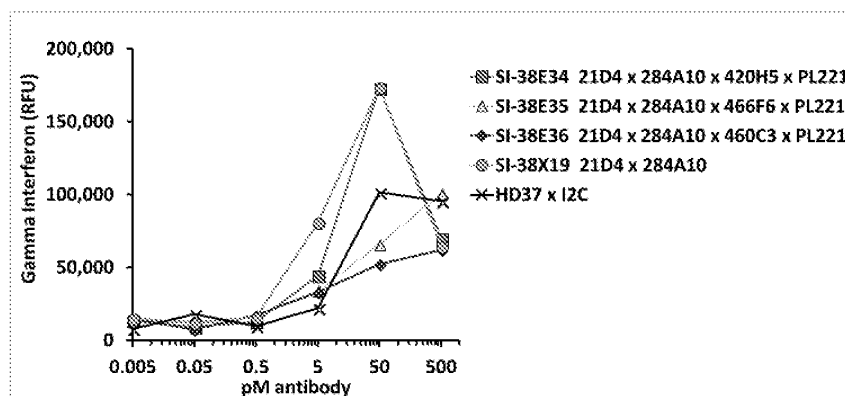
FIGURE 4. Proliferation of CD4+ T cells induced by tetra-specific antibodies



FIGURES

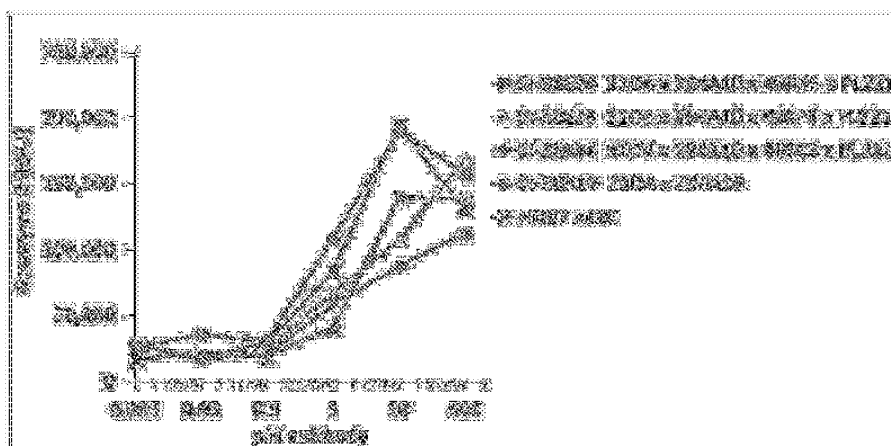
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FIGURE 5. Secretion of Gamma Interferon from PBMC induced by tetra-specific antibodies



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FIGURE 6. Secretion of Granzyme B from PBMC induced by tetra-specific antibodies



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FIGURE 7. Tetra-specific antibodies with CD19 tumor antigen recognition domain.

Antibody ID	Domain 1	Domain 2	Domain 3	Fc	Domain 4
	LH-scFv	LH-scFv	Fab		HL-scFv
SI-38E34	21D4	284A10	420H5	n2	PL221
SI-38E35	21D4	284A10	466F6	n2	PL221
SI-38E36	21D4	284A10	460C3	n2	PL221
SI-38X19	21D4	284A10*	-	-	-
	HD37	I2C*	-	-	-

*Orientation of the bi-specific antibodies 21D4 x 284A10 and HD37 x I2C is HL scFv – linker – LH scFV

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FIGURE 8. List of tetra-specific antibodies.

Antibody ID	Domain 1	Humanized Variant	Domain 2	Humanized Variant	Domain 3	Humanized Variant	IgG Fc	Domain 4	Humanized Variant
	LH-scFv		LH-scFv		Fab			HL-scFv	
SI-38E34	21D4	na	284A10	H1L1	420H5	H3L3	n2	PL221	H1L1
SI-38E35	21D4	na	284A10	H1L1	466F6	H2L5	n2	PL221	H1L1
SI-38E36	21D4	na	284A10	H1L1	460C3	H1L1	n2	PL221	H1L1
SI-38X19	21D4	na	284A10*	H1L1	-	-	-	-	-
	HD37		I2C*	-	-	-	-	-	-

*Orientation of the bi-specific antibodies 21D4 x 284A10 and HD37 x I2C is HL scFv – linker – LH scFV