

Supplemental Figure S1. LAIR-1 cell surface expression analysis. Gating schematic for quantification of LAIR-1 on primary patient BM cell subpopulations.



Supplemental Figure S2. Characterization of anti-LAIR-1 agonist monoclonal antibody NC525. (A) Binding profile of NC525 to human (H) LAIR-1⁺ cells or (**B**) mouse (M) LAIR-1⁺ cells. (**C**) Schematic of human LAIR-1 reporter cell line UT-140. UT-140 cells that express GFP under the NFAT promoter were transduced with human LAIR-1 fused to the zeta chain of CD3. Upon engagement of the LAIR-1 extracellular domain (ECD), signal transduction activates GFP fluorescence. (**D**) Profile of NC525 blockade of collagen-1 binding to LAIR-1, measured by UT-140 reporter cell activation. (**E**) Activation profiles of UT-140 LAIR-1 reporter cells by NC525, collagen, or isotype (Iso) under the indicated coated or soluble (sol) treatment conditions. (**F**) (left) Western blot and (right) quantification (pixel density normalized to histone H3) for phosphorylated SHP-1 in healthy donor blood monocytes under the indicated NC525, complement C1q, or isotype treatment conditions. Each line represents an individual donor. (**G**) MV4-11 cell lysis after coincubation with healthy donor peripheral blood monoculear cells (PBMCs) at an 80:1 ratio in the presence of 10 µg/mL soluble NC525 or isotype control. Target cell lysis is plotted against mAb concentration. For graphs **AD**, **G**, isotype treatment is indicated by gray circles; NC525 treatment is indicated by red squares.



Supplemental Figure S3. Quantification of NC525-mediated AML cell death ex vivo. (A) Representative flow cytometry gating and scatterplots of (B) primary live, dead, or apoptotic total blood leukocytes or (C) CD45^{Lo} SSC^{Lo} blast cells after ex vivo treatment with 10 ug/mL isotype control or NC525 in the presence of collagen.

Supplemental Figure S4



Supplemental Figure S4. NC525 and collagen induced phosphorylation signaling. (A) Human phosphokinase array dot blots and (B) human phospho-immunoreceptor array dot blots with the respective keys for AML patient PBMCs treated with 10 µg/mL isotype control, LAIR-1 agonist mAb NC525, 50 µg/mL collagen-1 plus isotype control, or collagen-1 plus NC525.



Supplemental Figure S5. LAIR-1 mAb NC525 does not induce cytotoxic signaling in healthy cells. Reverse phase protein microarray of mTOR or caspase-7 activation in (A) AML donor or (B) healthy donor PBMCs cultured in 50 ug/mL coated collagen-1 and treated with 10 ug/mL isotype (gray) or NC525 (red) for 5 minutes. (C) Immunophosphoarray of CD34⁺ enriched cord blood cells (CBCs) treated with 10 ug/mL isotype (gray) or NC525 (red) and anti-IgG for 30 minutes. N = 3 technical replicates per condition. Error bars represent standard error of mean. P values determined by Student's T test.

Α



Supplemental Figure S6. LAIR-1 expression on AML cell lines. Histograms of LAIR-1 cell surface expression (blue) on the indicated AML cell lines relative to isotype control staining (red).



Supplemental Figure S7 Differential gene expression in CDX mouse bone marrow. Significantly downregulated (purple) or upregulated (green) genes in MV4-11 cells recovered at day 27 postchallenge from the bone marrow of CDX mice treated with NC525 compared to isotype control. Significance threshold set at P value < 0.05. Gene values and descriptions are listed in Supplemental Table S3.



Supplemental Figure S8. LAIR-1 monoclonal antibody NC525 does not impact healthy leukocytes. (A) Schematic of the model system for defining NC525 effects on human (_H) immune cells in vivo. (**B**) Cell counts of human CD45⁺ cells or human CD3⁺ cells in the spleen or bone marrow of engrafted mice treated with vehicle (gray) or 10 mg/kg NC525. N = 7 mice per group. P values determined by Student's T test. (**C**) Model schematic and leukemic growth of MV4-11 challenged mice engrafted with human PBMCs. N = 68 mice. (**D**) Percent of human CD3⁺ T cells, CD4⁺ T cells, CD20⁺ B cells, and the degree of CD25 expression on CD3⁺ T cells recovered from the spleen or (**E**) bone marrow of PBMC engrafted CDX mice after treatment with 10 mg/kg isotype (gray) or NC525 (red). Bar graphs are generated from mice euthanized at day 28 postchallenge. N = 29 biological replicates. Error bars represent standard error of mean. P values determined by Student's T test.

	Types of AML	BM blast %	Karvotype	NGS data			
AML01	NK	89.5	46,XX[20]	Not done			
			46,XY,t(1;4)(p36.1;q31)[7]/46,idem,del(7)(q34)[3]/48,XY,	FLT3 ITD n Val581 Phe594dup (47%)			
AML02	FLT3 mutated	97.5	+8,+13[10]7	$DH2 = 4\pi r_0 172 I_{10} (0.69/1)$			
			47.XX8	IDH2 p.Arg1/2Lys (96%)			
AML03	CK without monosomy	97	13,?del(18)(q21),+21,+2mar[5]/46,XX,add(21)(q22)[2]/46, XX[14]	FLT3 ITD p.Arg595_Leu601dup, and splice site variant, p.?. WT1 : p.Ala170tyrfs*70 and p.Ser169*			
			46,XX,t(8;21)(q22;q22)[20]	Tier II: Variants of Potential Clinical Significance			
				EZH2 p.Arg63Profs*10 (10%)			
AML04	t(8;21)	62		FZH2 p Gly743 Ile744insGlyGly (7%)			
				RUNX1 p.Ser172Asn (11%)			
			46,XY,der(7)t(7;16)(q22;q22)inv(16)(p13.1q22),der(16)t(7;	NGS not done.			
AML05	inv(16)	(2	16)inv(16)(p13.1q22)[18]/46,XY[2]	AMI Sponshot Donal: No mutations datastad in IDI11			
		03		IDH2, FLT-3 (TKD), KIT			
				No mutations detected in FLT3, NPM1, BEBPA			
AML06	TP53 mutated	31.5	44,XX,del(5)(q22q35),add(12)(p13),-13,add(13)(p11.2),-	TP53 p.Cys242Ser (90%)			
			16[cp9]/48,idem,+X,+8,add(13)(p11.2),+22[10]/46,XX[1] 46 XY +1 der(1:15)(a10:a10)[9]/43~46 XY i(1)(a10)[cp2]/				
			46,XY[9]	CSF3R p.Thr618Ile (38%)			
AML07	FLT3 mutated	77		FLT3-TKD p.Asp835Tyr (43%)			
	1 DTO MUNICU			SRSF2 p.Pro95Arg (50%)			
				ZRSR2 n Arg126* (81%)			
	Manager	07.5	46,XX[20]	NGS not done.			
AML08	Monocytic leukemia	87.5		No mutations found in FLT3, CEBPA, cKIT			
			45.X	One insertion mutation in			
AML09	t(8;21)	35	Y,t(8;21)(q22;q22)[5]/45,idem,del(9)(q21q22)[9]/46,XY[6]	KIT(p. Tyr418_Asp419insPhePhe) was identified in this			
			46,XX,del(7)(q22),del(9)(p22),del(12)(p12),inv(16)(p13.1q	patient's sample			
AML10	inv(16)	83.5	22)[cp20]	NGS not done.			
		05.5		No mutations found in FLT3, NPM1, CEBPA. cKIT			
				positive. NGS not done. No mutations in IDH1/2. FLT3-TKD			
AML11	NK	94	46,XY[20]	DNMT3A or KIT. FLT3-ITD positive mutant: wild type			
				ratio is 0.15.			
AML12	inv(16)	90	46,XX,inv(16)(p13.1q22)[17]/46,XX[3]	NGS not done.			
			45 V V 4(8-21)(-22)22)[10]/46 VV[1]	Negative for mutations in FLT3, NPM1, CEBPA, cKIT			
			43, X,-X,I(8;21)(q22;q22)[19]/46, XX [1]	Nos not done. Negative for mutations in FLT3, NPM1, CEBPA.			
A MIT 12	t(8·21)	70		KIT (c.2446G>A and c.2447A>T) D816I			
AMLIS	((8;21)			(GAC>ATC)DETECTED			
				The presence of the double mutation at c.2446 and c.2447 in KIT was confirmed by sequencing			
			43~46,XY,add(2)(q31),add(3)(p21),add(4)(q21),del(5)(q15	KIT was commed by sequencing.			
AML14	CK with monosomy	48.5	q33),-7,+8,-12,add(13)(q34),add(15)(p11.2),-16,-	TP53 p.Leu114Cysfs*9 (44.9%) and p.? (40.6%)			
			18,+1~2mar[cp20]				
	CK without monosomy		46~49,XY,+8,t(8;16)(p11.2;p13.3),add(22)(p11.2),+mar[cp	TET2 (c.5081T>A; p.Leu1694*; 41%)			
AML15		88.5	10, 10, 11, 12	TET2 (c.1936dup; p.Thr646Asnfs*35; 43%)			
				VUS in ASXL1 (c.3538G>C; p.Asp1180His; 49%)			
AML16	Monocytic leukemia	89	46,XX[20]	NGS not done.			
			40-42 XX add(3)(a12) add(5)(a11 2) -7 -9 -	negative for mutations in FL13, NPM1, CEBPA, cKIT			
AML17	CK with monosomy	70	12,add(16)(q12),-17,add(18)(q21),19,-20,-22,+1-	Not performed			
			2mar[cp20]				
AML18	TP53 mutated	81	46,XY,t(11;19)(q23;p13.1)[9]/47,idem,+mar[11]	TP53 p.Arg248Trp (45%) Tier II: NPAS p.Glv12Cvs (88%)			
			46,XX[20]	NGS not done.			
AML19	NK	70		IDH2 mutation detected. No mutations detected in FLT3,			
			47 1012001	NPM1, CEBPS			
AML20	NK	79	40,AA[20]	BCOR p.Cvs1606Asnfs*11 (40.2%)			
				NRAS p.Gly13Asp (VAF 43.2%)			
	TP53 mutated		42~46,XY,-	TP53 p.Cys275Tyr (77%) and TP53 p.Thr102Profs*21			
AML21		90	Y,+8,der(9)t(9;11)(q34;q12),der(12;17)(q10;q10),der(17)t(3 :17)(q13;p12)[cp20]	(11%)			
			45~47,XX,-				
AML22	TP53 mutated	71.5	5,add(7)(q11.2),+8,+11,der(11)t(11;11)(p15;q13),add(16)(q	TP53 p.Phe113Val (45%)			
			21),psu did(17;5)(p11.2;q22),-17,-				
			20,+1~2mar[cp16]/46,XX[4] 46,XY[20]	NGS not done.			
AML23	Monocytic leukemia	48.5	10444 [m/]	Negative for cKIT.			
AML24	Monocytic leukemia	40	46.XX[20]	NGS not done.			
		40	45 XY inv(3)(a21a26.2) -7[17]/45 idem del(5)(a22a35)[3]	NGS not done			
AML25	Monocytic leukemia	54.3		Positive for cKIT mutation. Negative for mutations in			
				FLT3, NPM1, CEBPA, BCR/ABL1			

Supplemental Table S1. AML patient samples. Summary and description of AML patient BM samples tested for LAIR-1 expression. Headings denote patient/sample AML type, percent circulating blasts, karyotype, and molecular genotype as determined by sequencing (NGS).

Assay	Patient #	Types of AML	BM blast %	Karyotype	NGS data	Previous treatment
CFU	1	t(8;21)	35	45,X,- Y,t(8;21)(q22;q22)[5]/45,idem,del(9)(q21q22)[9]/46,XY[6]	One insertion mutation in KIT(p.Tyr418_Asp419insPhePhe) was identified in this patient's sample	None
CFU	2	NK	94	46,XY[20]	NGS not done. No mutations in IDH1/2, FLT3-TKD, DNMT3A or KIT. FLT3-ITD positive mutant: wild type ratio is 0.15.	Yes: Status post low dose ARA-C, s/p 3+7 induction chemotherapy
CFU	3	inv(16)	90	46,XX,inv(16)(p13.1q22)[17]/46,XX[3]	NGS not done. Negative for mutations in FLT3, NPM1, CEBPA, cKIT	None
CFU & PDX	4	t(8;21)	84.5	47,XX,+13[16]/48,idem,+13[1]/46,XX[3]	ASXL1 p.Glu635Argfs*15 (40%) BCOR p.Glu1076Glyfs*3 (37%) RUNX1 p.Ser388* (85%) SRSF2 p,Pro95His (48%)	None
CFU	5	t(8;21)	90	46,XX,add(1)(p36.1),t(8;21)(q22;q22)[20]	NSG not done	status post 7+3 induction with persistent disease, 5+2 reinduction with CR1, HiDAC x4, with relapse 4/2018, s/p FLAG-M with CR2 and 2 cycles consolidation
CFU	6	APL	64.5	46,XX,t(15;17)(q24;q21),add(17)(p11.2)[19]/46,XX[1]	NGS not done	None
CFU	7	NK	92	47,XY,+mar[2]/46,XY[18]	NGS not done	None
CFU	8	AML-MRC	28	45,XY,del(5)(q22q35),- 16,add(17)(p11.2)[10]/45,idem,inv(7)(p15q 11.2)[9]/46,XY[1]	NGS not done	None
PDX	9	NK	N/A	N/A	NGS not done	N/A
PDX	10	AMML	N/A	N/A	NGS not done	N/A
PDX	11	Monocytic FLT3 ⁺	<5	Abnormal	EZH2chr7:148506443, c.2069G>A, p.Arg690His; NM_004456.4Missense39.9FLT3chr13:285 92640, c.2505T>G, p.Asp835Glu abnormal clone with an extra copy of chromosomes 6 and 13, and a translocation between chromosomal bands 11q23 and 17q25 Acquired t(11;17)(q23;q25), likely with underlying KMT2A/SEPT9 gene fusions	None
PDX	12	FLT-3+, ITD	N/A	N/A	NPM1 chr5:170837543 c.859_860insTCTG p.Trp288fs NM 002520.6 Frameshift Insertion 53.4	None

Supplemental Table S2. AML patient samples. Summary and description of AML patient BM utilized in CFU and PDX modeling. Headings denote the assay(s) which utilized the respective patient/sample, patient and sample identifiers (ID), AML type, percent circulating blasts, karyotype, and molecular genotype as determined by sequencing (NGS) and treatment history if available.

Sample #	Assay	Primary Diagnosis	Sex	Race	Age	Previous treatments	Current Medications	
122042476	Whole Blood Cell Killing	AML	М	Black	66	Daunorubicin/Cytar abine (7 + 3 induction), Mylotarg x1 with HiDAC x 2	acyclovir, Colace, Vitamin B12, Duloxetine, isosorbide mononitrate, nystatin, Nystatin/ Benadryl/Lidocaine /Mylanta, ondansetron, posaconazole, promethazine	
122121088	Whole Blood Cell Killing	AML	F	American Indian	80	N/A	Dacogen/Venclexta	
121982560	Whole Blood Cell Killing	AML	М	White	61	N/A	Dacogen	
311906	Whole Blood Cell Killing	AML (M1)	F	White	62 Induction with 7+ chemotherapy (3/1 - 4/19); recovery BM (4/19) showed refractory disease Tolero Clinical Trial Therapy (4/23/19-7/15/19) HiDAC (9/16/19) IDAC (12/3/19). Repeat bone marrow biopsy (12/30/2020) showed AML relapse; Venetoclax/Decita ine x 7 cycles (las 10/9/21); Restagin BM 11/17/21 showed morphologic remission with detectable 1q duplication. Pt relapsed (3/30/22 while undergoing work up for SCT		N/A	
121769827	Whole Blood Cell Killing	AML	М	White	75	75 Elitek		
200013115	Signaling (phosphoarray)	AML	М	N/A	74	Newly diagnosed	Newly diagnosed	
2002170121	Signaling (reverse phase microarray)	AML	М	White	64	Cytoxan	N/A	
16761	Bone Marrow Cell Killing	AML	Female	N/A	63	lst line Idarubicin (Cytarabine Cyt); 2nd line fludarabine, Cyt, Ida, G-CSF; 3rd line Venetoclax, Azacitidine	N/A	

Supplemental Table S3. Patient samples used in ex vivo whole blood killing assays or PBMC signaling studies. Headings denote the assay which utilized the respective sample, patient diagnosis, sex, race, age, and treatment history (if available). N/A = not available/unknown.

Cell Line	Cell Type	Morphology	FAB Classification	Molecular Mutation	Disease	LAIR-1 Expression	
MV4-11	Macrophage	Lymphoblast	M5	FLT3 ITD+	Biphenotypic B Myelomonocytic Leukemia	++	
THP-1	Monocyte	Monocyte	M5	NA	Acute monocytic leukemia	++	
Kasumi	Myeloblast	Myeloblast	M2	RUNX1-RUNX1T1	Acute myeloblastic leukemia	++	
HL-60	Promyeloblast	Lymphoblast- like	M3	PML-RARa	Acute promyelocytic leukemia	-	
NB-4	Myeloblast	Myeloblast	M3	PML-RARa	Acute promyelocytic leukemia	+	
MOLM-13	Monocyte	Lymphoblast- like	M5	FLT3 ITD+	Acute myeloid leukemia	++	
MOLM-14	Monocyte	Lymphoblast- like	M5	FLT3 ITD+	Acute myeloid leukemia	++	
U-937	Monocyte	Monocyte	M4/5	NA	Histiocytic Lymphoma	++	
TF-1	Erythroblast	Lymphoblast	M6	NA	Erythroleukemia	+	
HEL	Erythroblast	Lymphoblast	M6	NA	Erythroleukemia	+	

Supplemental Table S4. Leukemic cell lines tested for LAIR1 expression. Summary and description of AML cell lines tested for LAIR-1 expression. Headings denote cell type, morphology, FAB classification, molecular mutation, and disease diagnosis of source patient. NA = not applicable/unknown.

		Isotype Control Treated Mice			NC525 Treated Mice						
Symbol	Description	Mouro # SCI 0242	Mouse #	Mouse #	Mouse #	Mouse #	Mouse #	log2FoldChange	Fold	puelue	nadi
SI C27A1	solute carrier family 27 (fatty acid	4 550266995	5 215477085	5 590972252	5 592200695	5 106402224	4 025025076	2 614700844	12.25	0.000465722	0.052012861
MYCL	v-myc avian myelocytomatosis viral	5.833541848	5.834386917	5.589872352	5.583309685	5.196492224	4.925055970	-3.14838375	8.866616947	3.60E-05	0.017240274
NEAT5	nuclear factor of activated T-cells 5_tonicity-	5 887989632	4 867553781	5 6283465	5 080809344	5 476600144	4 851035395	-2	4	0 003175944	0 143048032
DIMETR	ribosomal modification protein rimK-like	6 624055227	5 602524282	5 187772000	5 055278462	5 627064916	4 600570722	1 660851208	2 101010101	0.020656085	0.265202287
NATO	N-acetyltransferase 8-like (GCN5-related_	6.525410552	5.093524382	5.500702004	5.9991(40(5.476600144	4.090570722	-1.009851598	2.0022222222	0.020030083	0.203292287
ACTUI	ash1 (absent_small_ or homeotic)-like	10.06088000	0.31004002	8.872272082	9.025005654	8.4225(0204	8 410462802	1.475026855	2.781(22012	0.000222179	0.052012861
ASHIL	(Drosophila)	10.06088009	9.//44443//	8.872272083	8.033003634	8.422500504	8.410462803	-1.4/3926855	2.781622912	0.000408896	0.053012861
ACSF3	acyl-CoA synthetase family member 3	5.77695832	5.693524382	5.187773909	5.888164266	5.296027898	4.995425304	-1.345774837	2.541666667	0.026527833	0.279132051
ZNF708	zinc finger protein 708 mechanistic target of rapamycin	8.144329386	9.444295775	8.194200178	7.110556687	7.764176734	7.869894422	-1.302078319	2.465838509	0.00956873	0.224918328
MTOR	(serine/threonine kinase)	9.445985086	9.615136483	8.488943444	7.888164266	7.896931943	8.614335136	-1.208787124	2.311432326	0.003081932	0.143048032
SOS1	son of sevenless homolog 1 (Drosophila)	8.901286455	8.958868948	8.30523149	7.495846843	7.896931943	7.732390898	-1.208560148	2.311068702	0.000434027	0.053012861
PLCG1	phospholipase C_gamma 1	7.455030225	6.851065659	6.4027868	6.080809344	6.389137302	6.48575093	-1.133583154	2.194029851	0.006731035	0.179120312
PRR5	proline rich 5 (renal) essential meiotic structure-specific	6.656664086	6.915916803	6.238399982	6.250734345	5.848568921	6.188070382	-1.10433666	2.15	0.005940685	0.177557019
EME1	endonuclease 1	8.28284925	7.008035005	6.72026899	6.705300209	7.117057757	6.357995383	-1.08979667	2.128440367	0.030843097	0.279132051
D2HGDH	D-2-hydroxyglutarate dehydrogenase	8.464019008	8.447041152	7.823362483	7.328736857	7.728987305	7.331028336	-0.9881259	1.983606557	0.003583667	0.143048032
HERC1	ubiquitin protein ligase family member 1	10.70864138	9.169673395	9.184550008	9.019408799	9.003847146	8.929537368	-0.960670153	1.94621373	0.029187867	0.279132051
INSR	insulin receptor	9.884646189	9.399644009	8.880264874	8.583309685	8.366417226	8.851035395	-0.914352905	1.884723524	0.002570416	0.143048032
FANCA	Fanconi anemia_ complementation group A	9.87119439	10.92677532	9.866248296	9.408736179	9.533795545	9.515997217	-0.867597141	1.824621397	0.006301606	0.177557019
BCL2	B-cell CLL/lymphoma 2	8.791313613	8.495585004	8.488943444	7.743774357	7.655923843	8.210438195	-0.838693452	1.788429752	0.00055337	0.053012861
RANBP2	RAN binding protein 2	10.04599147	9.115481295	8.768436272	8.540240963	8.728987305	8.768014808	-0.80479013	1.746891652	0.017167933	0.245310254
UMPS	uridine monophosphate synthetase	6.262385147	6.3388595	6.823362483	6.250734345	6.247118297	6.029372636	-0.780882711	1.718181818	0.017412419	0.245310254
CSF3R	colony stimulating factor 3 receptor (granulocyte)	9.644854784	10.15463648	9.340420919	9.011546682	9.170497016	9.134489342	-0.695556525	1.619509044	0.011738952	0.224918328
HJURP	Holliday junction recognition protein	9.098886415	8.825974678	8.56529433	8.035005654	8.354921587	8.32420707	-0.69503973	1.618929016	0.001289798	0.102968855
KAT6A	K(lysine) acetyltransferase 6A	10.67806656	9.867553781	9.735770083	9.203205975	9.806989817	9.527920385	-0.659803728	1.579867675	0.027556069	0.279132051
NCOA2	nuclear receptor coactivator 2	7,490654135	7,5679935	7.711335865	6,705300209	7.271780352	7,384467595	-0.639689428	1.55799373	0.051276919	0.29232424
BRCA2	breast cancer 2 early onset	8.499424345	8.332934666	8.148603312	7.6043713	8.061562644	7.89772863	-0.600441485	1.516180468	0.00613197	0.177557019
ΑСАСА	acetyl-CoA carboxylase alpha	6 656664086	6.051978353	6 311156324	6 402737439	5 848568921	6 217817725	-0 598137889	1 513761468	0.042950771	0 29232424
ATE7IP	activating transcription factor 7 interacting	9 477398038	8 302939926	8 451881349	8 264031168	8 366417226	8 357005383	-0.596128927	1.511655012	0.057612365	0.29232424
DTCEDA	procession for a country of EPA	6.001092125	5 765674167	6 211156224	6 450042154	6 106402224	6.0625205	0.584062501	1.5	0.049329904	0.20232424
CVDD	prostagrandin E receptor 4 (subtype Er 4)	8 281020644	9.1095(1991	0.511150524	0.450045154	0.190492224	0.0023393	-0.364902301	1.5	0.015415526	0.29232424
	NADH dehydrogenase (ubiquinone) 1 beta	8.381029044	8.108301881	8.451881549	9.390004007	8.300417220	8.951850055	0.001753754	0.032109431	0.013413536	0.238194896
NDUFB2	subcomplex_2_8kDa	10.61288239	10.566/3185	10.//488168	11.83458323	10.92441268	11.0061199	0.6663/899/	0.63008615	0.010932197	0.224918328
APRI	adenine phosphoribosyltransferase	10./6063601	10.35063667	10.65188201	11.85339885	10.90680669	10.86989442	0.692839902	0.618634886	0.022959069	0.268229127
LTA4H	leukotriene A4 hydrolase	6.303027132	6.765674167	7.1617787	7.561936034	7.247118297	7.410462803	0.698209551	0.616336634	0.02962039	0.279132051
РКМ	pyruvate kinase_muscle	10.72555917	10.3210115	10.47317613	12.02917658	10.45253238	10.76801481	0.743042077	0.597478177	0.047862354	0.29232424
GABARAP	GABA(A) receptor-associated protein protein kinase_ AMP-activated_ beta 2 non-	11.12886928	11.14113748	11.61942074	12.58330968	11.56655684	11.88735363	0.764850103	0.588514512	0.043275492	0.29232424
PRKAB2	catalytic subunit NADH dehydrogenase (ubiquinone) 1 beta	5.77695832	4.993084664	6.108339441	6.353827838	6.247118297	6.246964071	0.779231321	0.582677165	0.048356315	0.29232424
NDUFB11	subcomplex_11_17.3kDa	9.894653363	9.468818094	9.768436272	11.30962803	9.768515669	9.997570576	0.819329649	0.566705202	0.035527504	0.29232424
SCD	stearoyl-CoA desaturase (delta-9-desaturase)	6.940457052	6.656049676	6.755458418	7.665771845	7.433531422	7.669197072	0.916858765	0.529661017	0.040896249	0.29232424
CD63	CD63 molecule	12.5135632	12.11935893	12.25808656	14.1206423	12.34696486	12.49868316	0.925316005	0.526565167	0.040558201	0.29232424
CDA	cytidine deaminase	5.991083125	5.730050258	5.6283465	7.110556687	5.848568921	6.625475694	1.154577037	0.449197861	0.019628932	0.265292287
ARF5	ADP-ribosylation factor 5	9 542493066	8 935599169	9.070416958	11 32398333	9 637064816	9 482691131	1 230535366	0 426159274	0.041758752	0 29232424

Supplemental Table S5. Significantly differential gene expression in CDX mouse bone marrow after NC525 treatment. Significantly different gene expression in MV4-11 cells recovered at day 27 post-challenge from the bone marrow of CDX mice.

p-values and log2 fold changes, with an adjusted p-value < 0.05 and absolute log2 fold change > 1, define differentially expressed genes between 3 isotype-treated verses 3 NC525-treated CDX mice.