

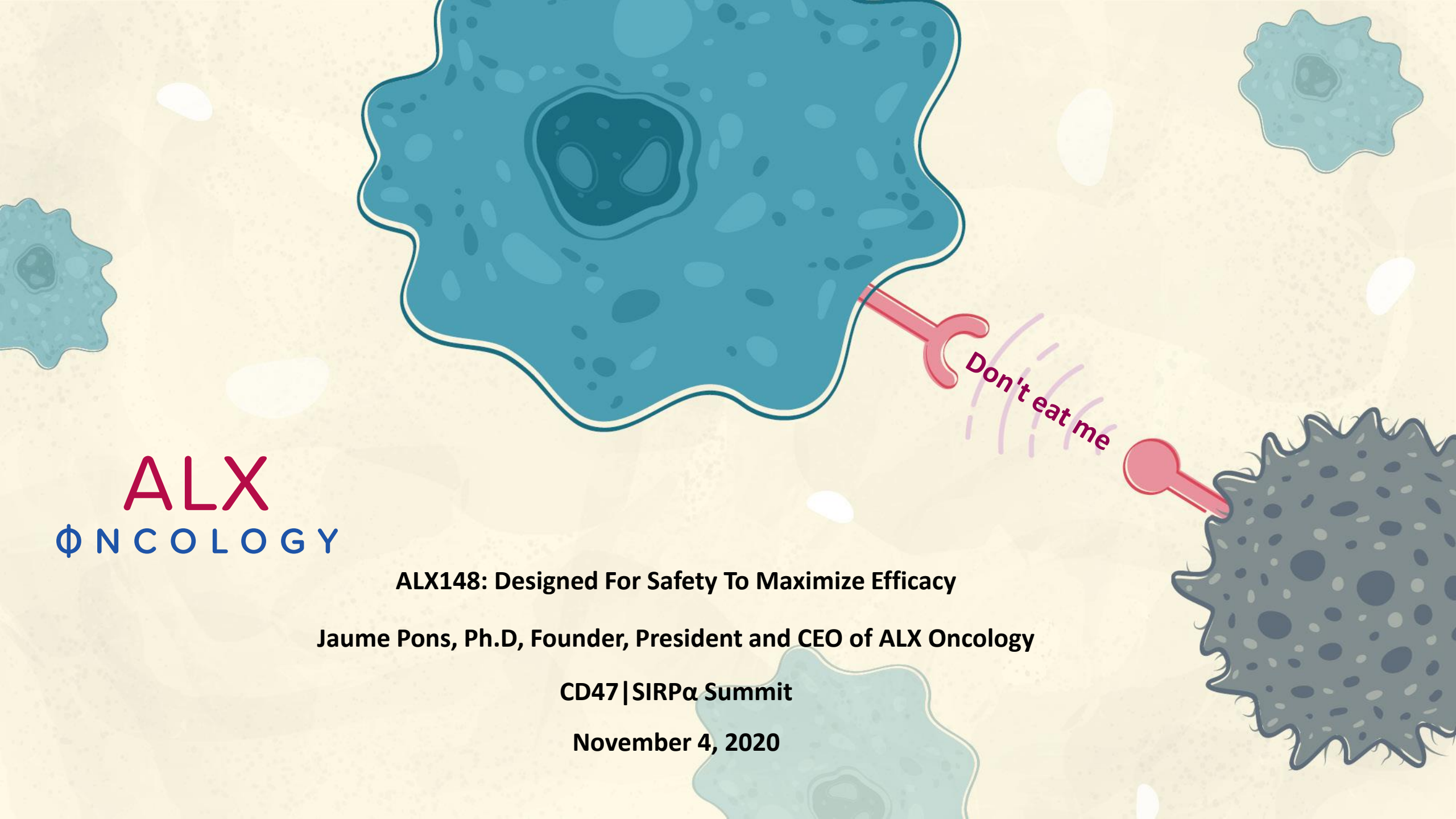


ALX148: Designed For Safety To Maximize Efficacy

Jaume Pons, Ph.D, Founder, President and CEO of ALX Oncology

CD47 | SIRP α Summit

November 4, 2020



DISCLAIMER

This presentation contains forward-looking statements. All statements other than statements of historical facts contained in this presentation, including without limitation, statements regarding our future results of operations and financial position, business strategy, product candidates, planned preclinical studies and clinical trials, results of clinical trials, research and development costs, regulatory approvals, timing and likelihood of success, as well as plans and objectives of management for future operations are forward-looking statements. In some cases, you can identify forward-looking statements by terms such as “may,” “will,” “should,” “would,” “expect,” “plan,” “anticipate,” “could,” “intend,” “target,” “project,” “believe,” “estimate,” “predict,” “potential,” or “continue” or the negative of these terms or other similar expressions.

We have based these forward-looking statements largely on our current expectations and projections about our business, the industry in which we operate and financial trends that we believe may affect our business, financial condition, results of operations and prospects and these forward-looking statements are not guarantees of future performance or development. These forward-looking statements speak only as of the date of this presentation and are subject to a number of risks, uncertainties and assumptions, including, among other things: our history of incurring significant net losses since our inception and our expectation that we will continue to incur significant net losses for the foreseeable future; sufficiency of our cash and cash equivalents to fund our planned operations; the need for additional capital to finance our operations and our ability to obtain such financing, if at all, on terms that are favorable to us; our limited operating history and absence of products approved for commercial sale; our substantial dependency on the success of our lead product candidate, ALX148, which is in clinical development and which has not completed a pivotal trial; the fact that outcome of preclinical testing and early clinical trials may not be predictive of the success of later clinical trials, and the results of our clinical trials may not satisfy the requirements of the Food and Drug Administration (“FDA”) or other comparable foreign regulatory authorities; the possibility that our product candidates may cause significant adverse events or other undesirable side effects when used alone or in combination with other treatments; the fact that the clinical trials of our product candidates are expensive, time consuming and difficult to design and implement and may fail to demonstrate adequate safety, efficacy and potency of our product candidates or provide the basis for marketing approval; the lengthy, time-consuming and inherently unpredictable nature of the regulatory approval processes of the FDA and comparable foreign regulatory authorities, which could lead to our inability to generate product revenue; our ability to obtain, maintain and enforce patent protection and other intellectual property for our product candidates and related technology; our dependency on our key personnel and our ability to successfully attract, motivate and retain highly qualified personnel; the fact that our preclinical research is conducted solely by Tallac Therapeutics, Inc. (“Tallac Therapeutics”) and that we are dependent on Tallac Therapeutics to perform its contractual research obligations on an effective or timely basis; the potential adverse impact of COVID-19 on our business, including our ongoing and planned clinical trials and preclinical research; and material weaknesses in our internal control over financial reporting.

New risk factors emerge from time to time and it is not possible for our management to predict all risk factors, nor can we assess the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in, or implied by, any forward-looking statements.

Because forward-looking statements are inherently subject to risks and uncertainties, some of which cannot be predicted or quantified, you should not rely on these forward-looking statements as predictions of future events. The events and circumstances reflected in our forward-looking statements may not be achieved or occur and actual results could differ materially from those projected in the forward-looking statements. Information regarding additional risks and uncertainties may be found in our Quarterly Report on Form 10-Q filed with the U.S. Securities and Exchange Commission (“SEC”) on August 27, 2020 and our future reports to be filed with the SEC. Except as required by applicable law, we undertake no obligation to update publicly any forward-looking statements for any reason after the date of this presentation.

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This presentation concerns drugs that are under clinical investigation and which have not yet been approved for marketing by the FDA. It is currently limited by federal law to investigational use, and no representation is made as to its safety or effectiveness for the purposes for which it is being investigated.

This presentation also contains estimates and other statistical data based on independent industry publications or other publicly available information, as well as other information based on our internal sources. We have not independently verified the accuracy or completeness of data contained in these industry publications and other publicly available information. Accordingly, we make no representations as to the accuracy or completeness of that data and you are cautioned not to give undue weight to such estimates.

OVERVIEW

ALX Oncology (Nasdaq: ALXO) is a clinical-stage immuno-oncology company focused on helping patients fight cancer by developing therapies that block the CD47 checkpoint pathway and bridge the innate and adaptive immune system

Lead product candidate, ALX148

CD47 blocker

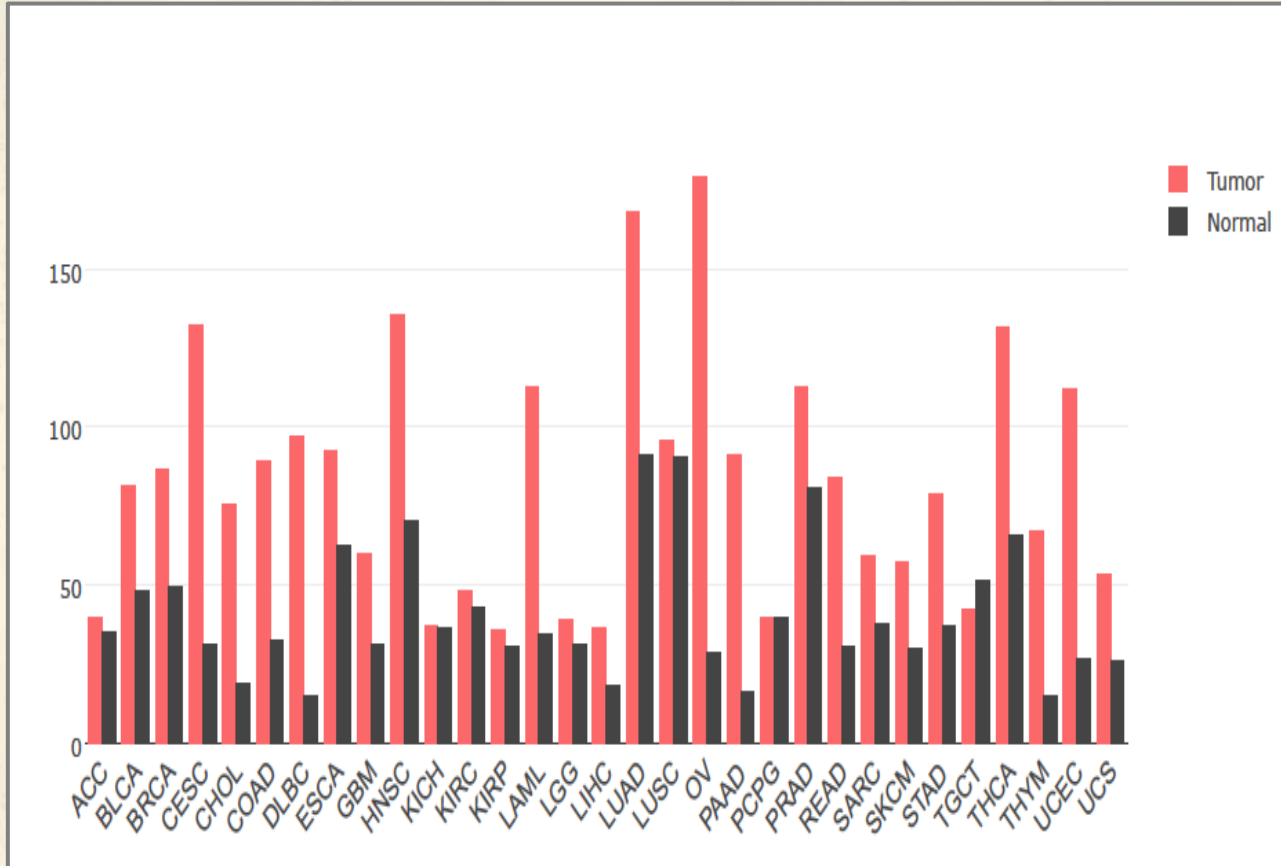
- Designed for use in combination
- Tolerability profile enables higher dosing
- Higher dosing may enable greater efficacy

Clinical proof-of-principle in both hematologic and solid tumors

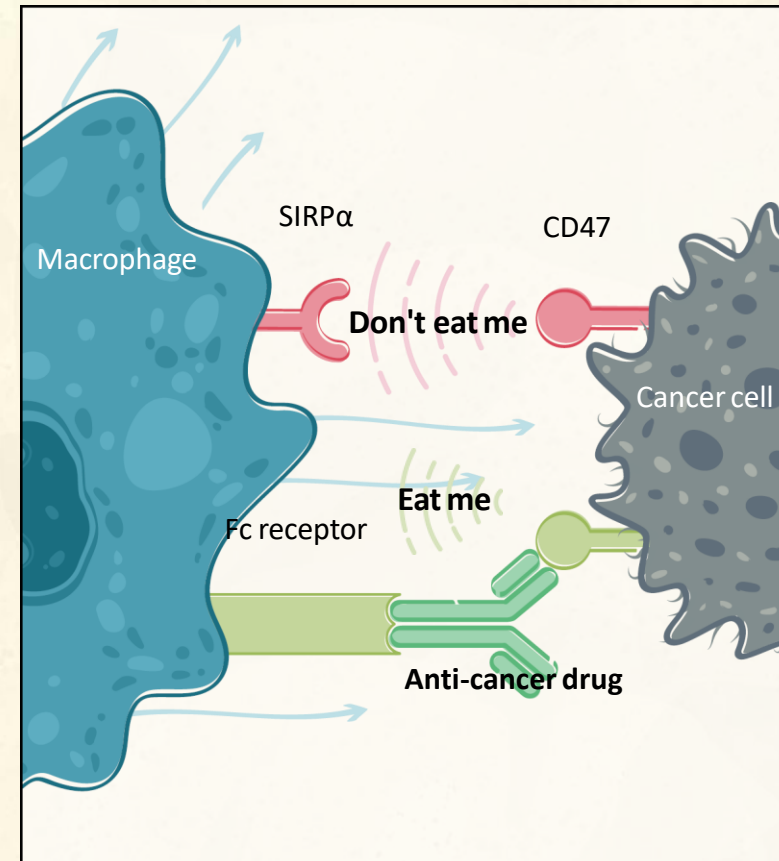
Initial focus on MDS, AML and solid tumors

CD47: TUMOR ASSOCIATED ANTIGEN (TAA)- MYELOID CHECKPOINT DUALITY

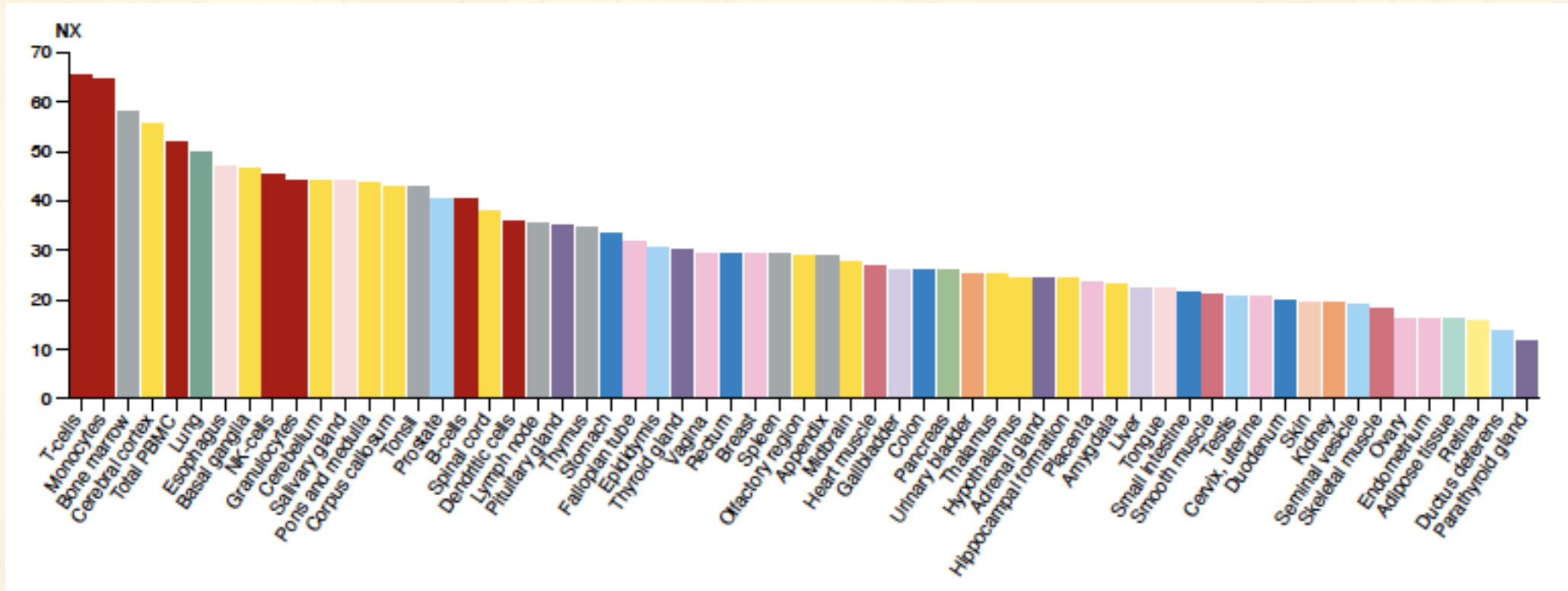
TAA-Expression levels on cancer and normal cells



Checkpoint Mechanism: “do not eat me”



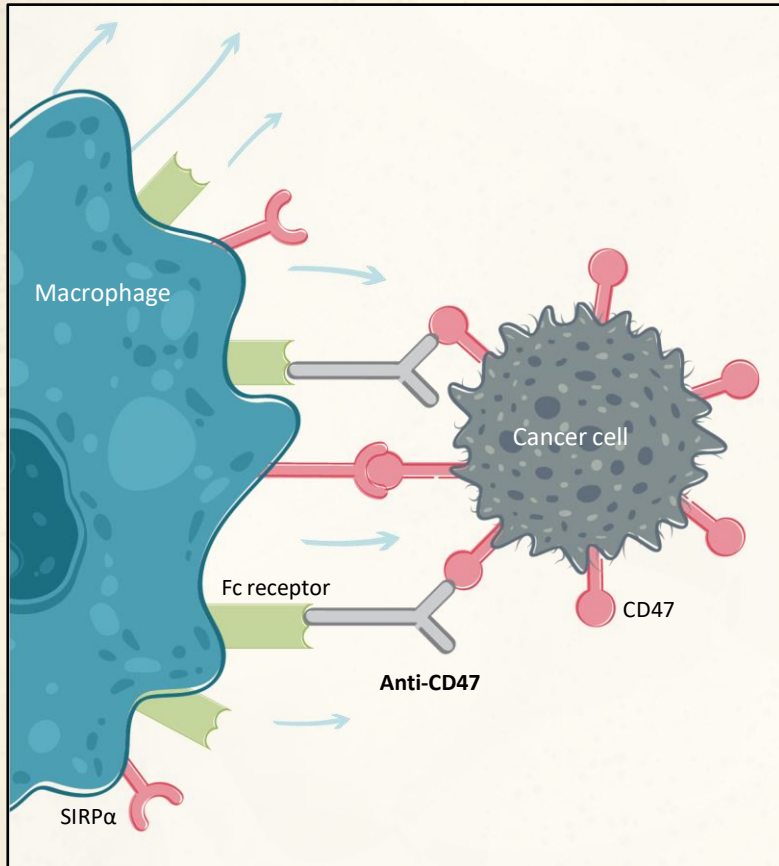
CD47 RNA EXPRESSION ACROSS NORMAL TISSUES



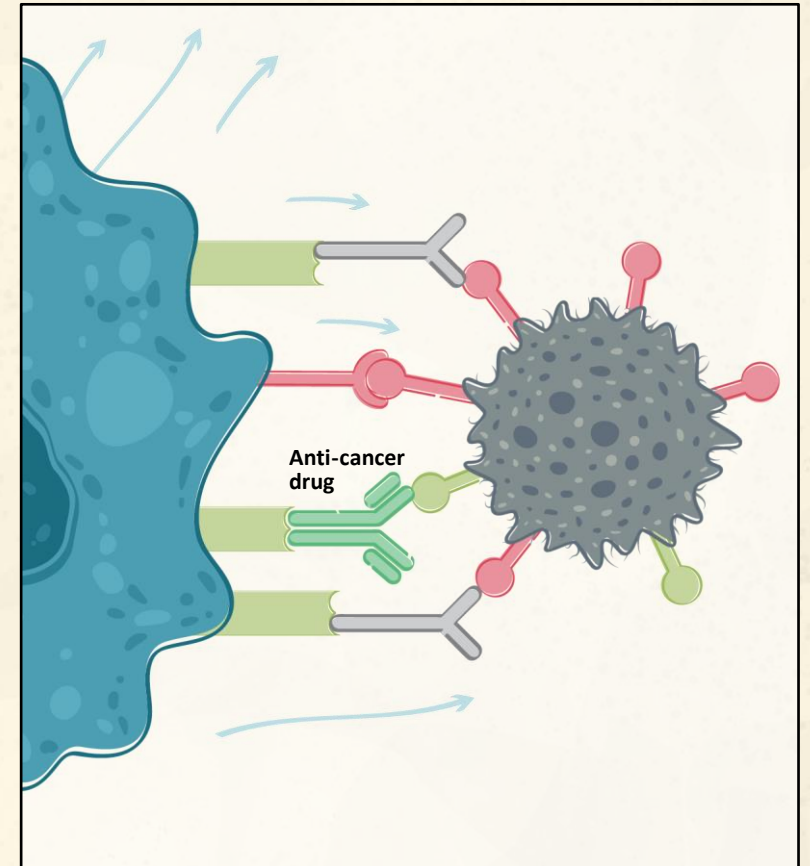
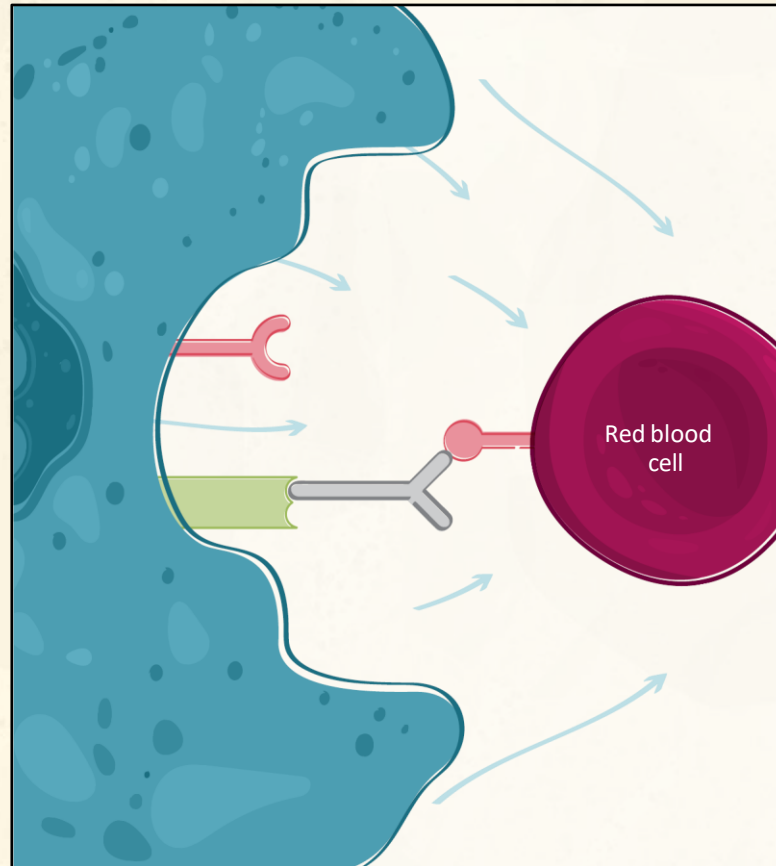
Using CD47 directly targeting cancer cells as TAA will be limited by on-target off-tissue toxicity

TARGETING CD47 AS TUMOR ASSOCIATED ANTIGEN

But also targets normal cells



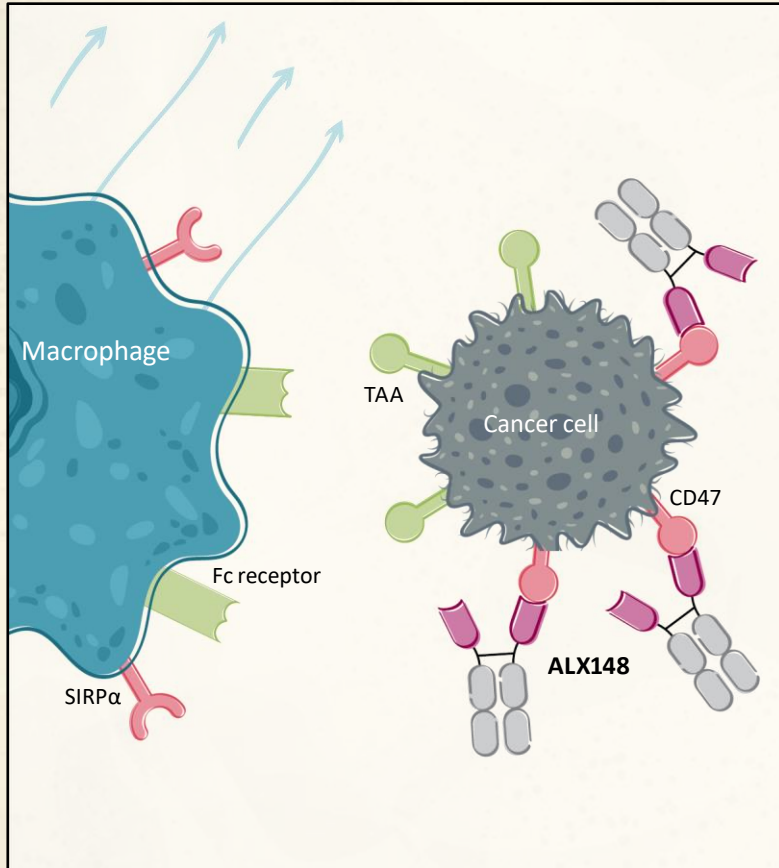
Anti CD47 with active Fc directly targets cancer cells



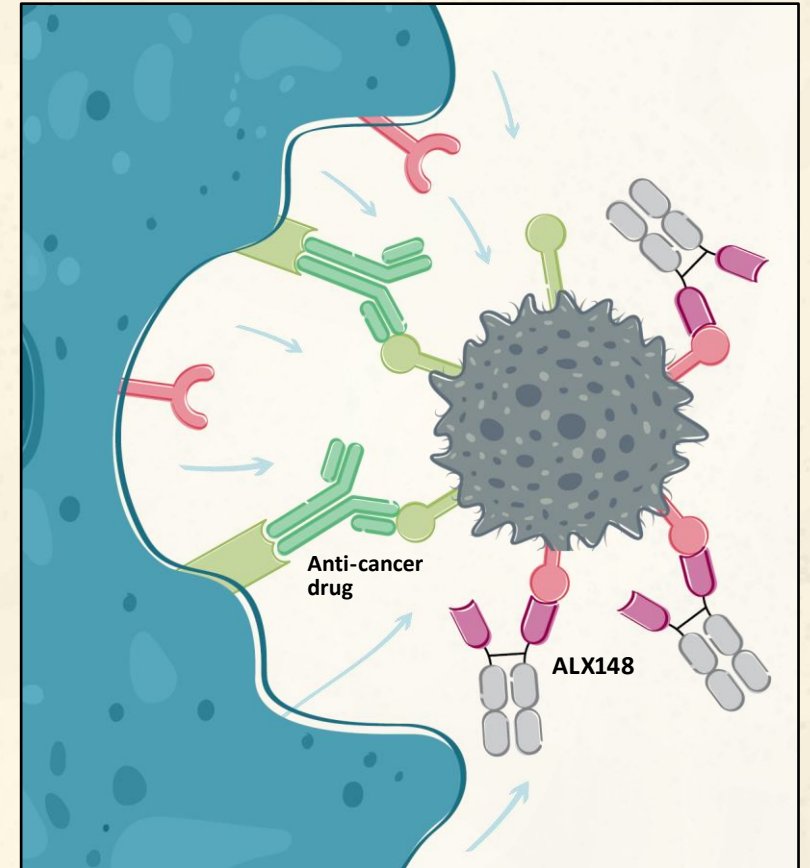
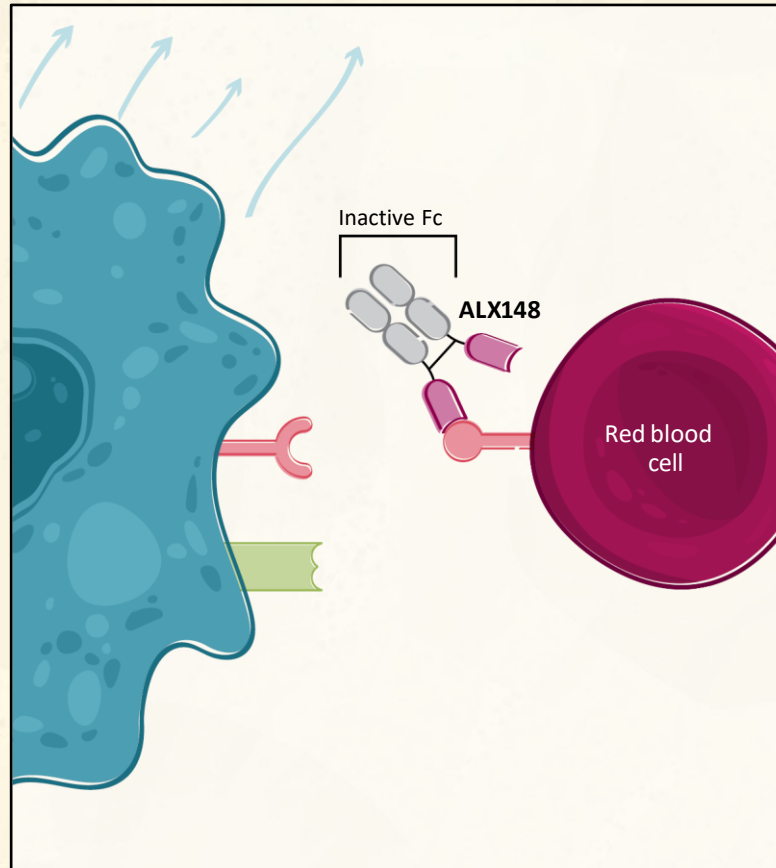
Dose limitations prevent full blockade of CD47 and active Fc competes with combo drug

TARGETING CD47 AS CHECKPOINT: ALX ONCOLOGY'S APPROACH

It spares normal cells



Anti CD47 with inactive Fc binds and block CD47-Sirp α interaction



High dose allows full blockade of CD47 and maximizes activity of combo drug

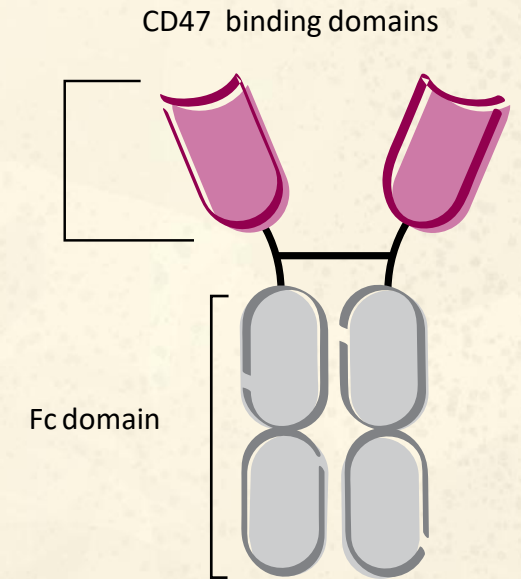
AFFINITY TO CD47 AND FC γ RECEPTORS

Name	Fc Domain (Human)	KD human CD47 (nM)	KD mouse CD47 (nM)	Effector function
ALX148	IgG1 DEAD	0.14	9	-
ALX216	IgG4 S228P	0.14	9	++
ALX377	IgG1 wt	0.14	9	++++
ALX126	IgG1 DEAD	3	65	-
5F9 (magrolimab)*	IgG4 S228P	7	NB	++
TTI-621*	IgG1 wt	500	NB	++++
TTI-622*	IgG4 S228P	500	NB	++

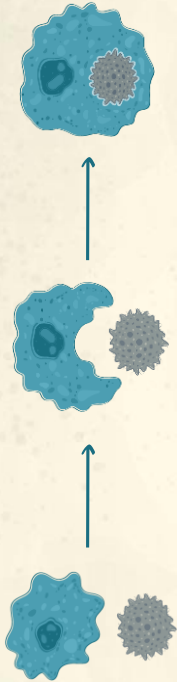
*molecules produced at ALX Oncology, based on public information

Fc Domain	CD16a (KD nM)	CD32a (KD nM)	CD32b/c (KD nM)	CD64 (KD nM)
IgG1	370	400	2000	0.004
IgG4 S228P	3000	810	850	1
IgG1 DEAD	NB	NB	NB	NB

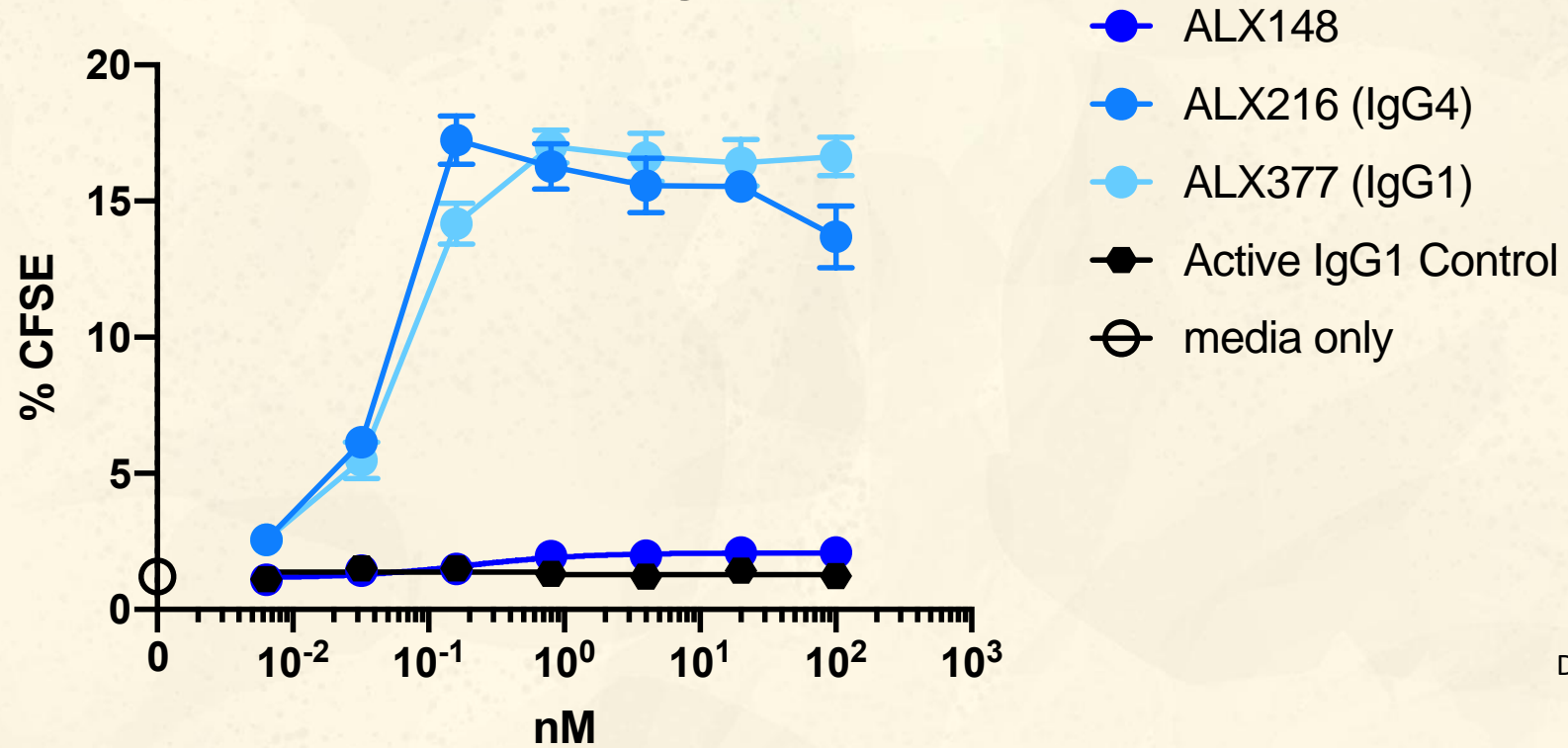
KD measured by SPR at ALX Oncology



SINGLE AGENT: INCREASE EFFECTOR FUNCTION ENHANCES PHAGOCYTOSIS



NP Don405 single p1

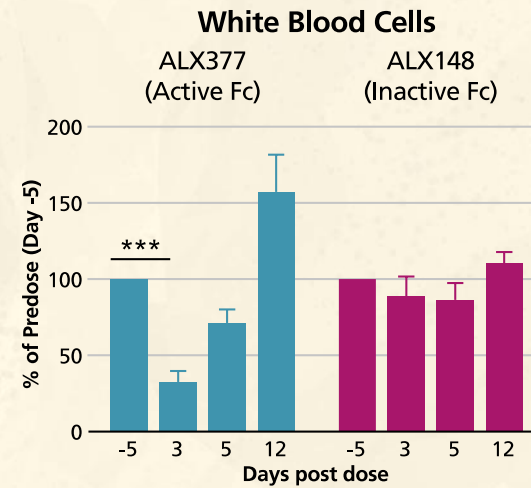
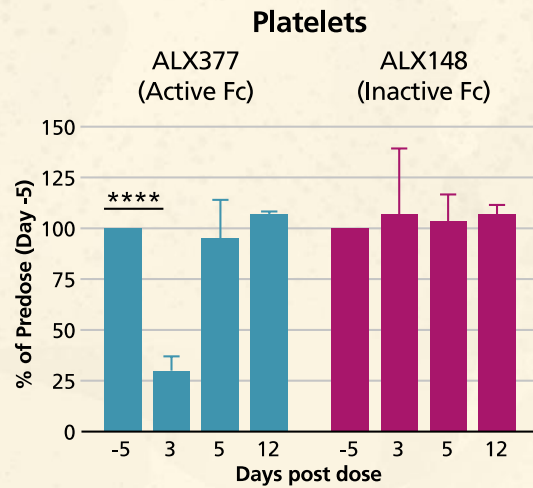
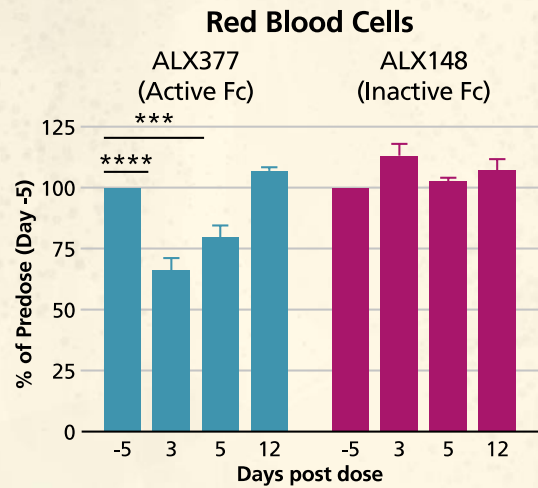


DLD1 cancer cells

All molecules with same high affinity CD47 binding domain (KD 140 pM)

SINGLE AGENT: INCREASED EFFECTOR FUNCTION INCREASES CYTOPENIAS

All molecules with same high affinity CD47 binding domain
(KD 9 nM for MOUSE CD47)



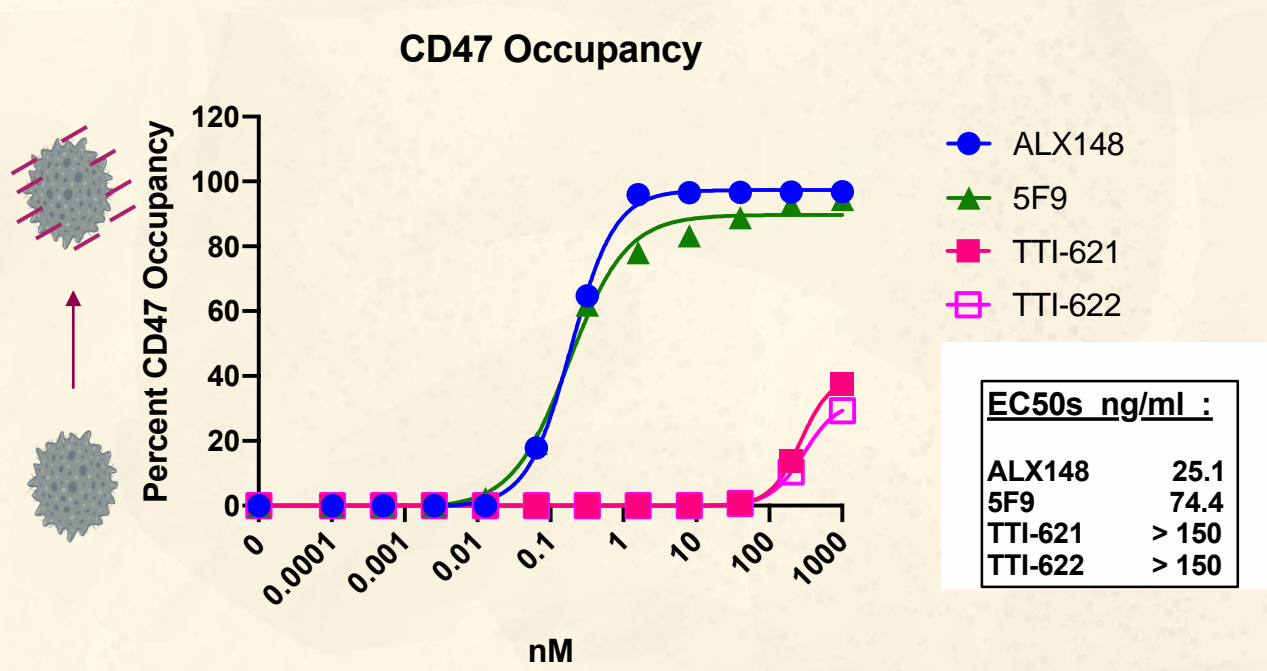
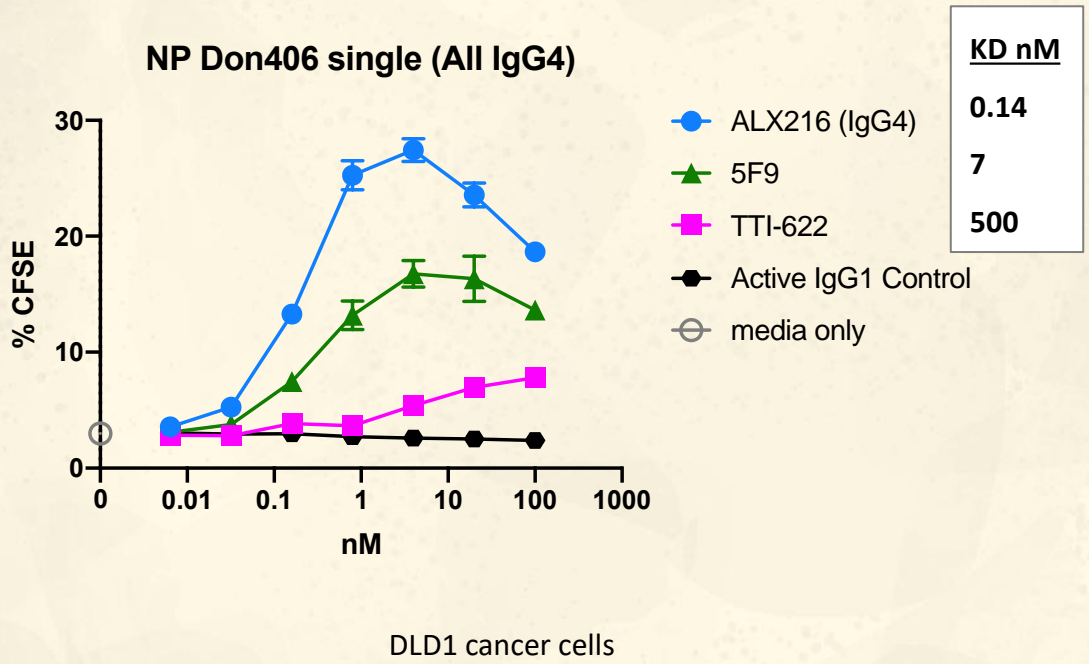
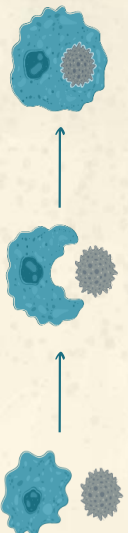
CD-1 mice received 30 mg/kg IV single dose

****p<0.0001, ***p<0.001

Inactive Fc is the core
determinant of safety
profile

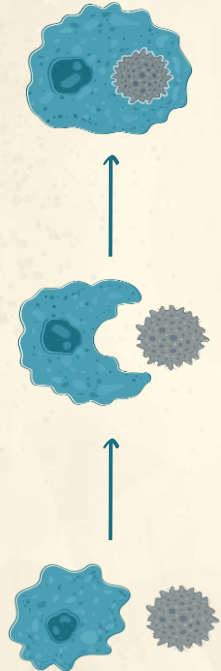
SINGLE AGENT: INCREASE OF CD47 AFFINITY ENHANCES PHAGOCYTOSIS

All molecules with same effector function (IgG4)

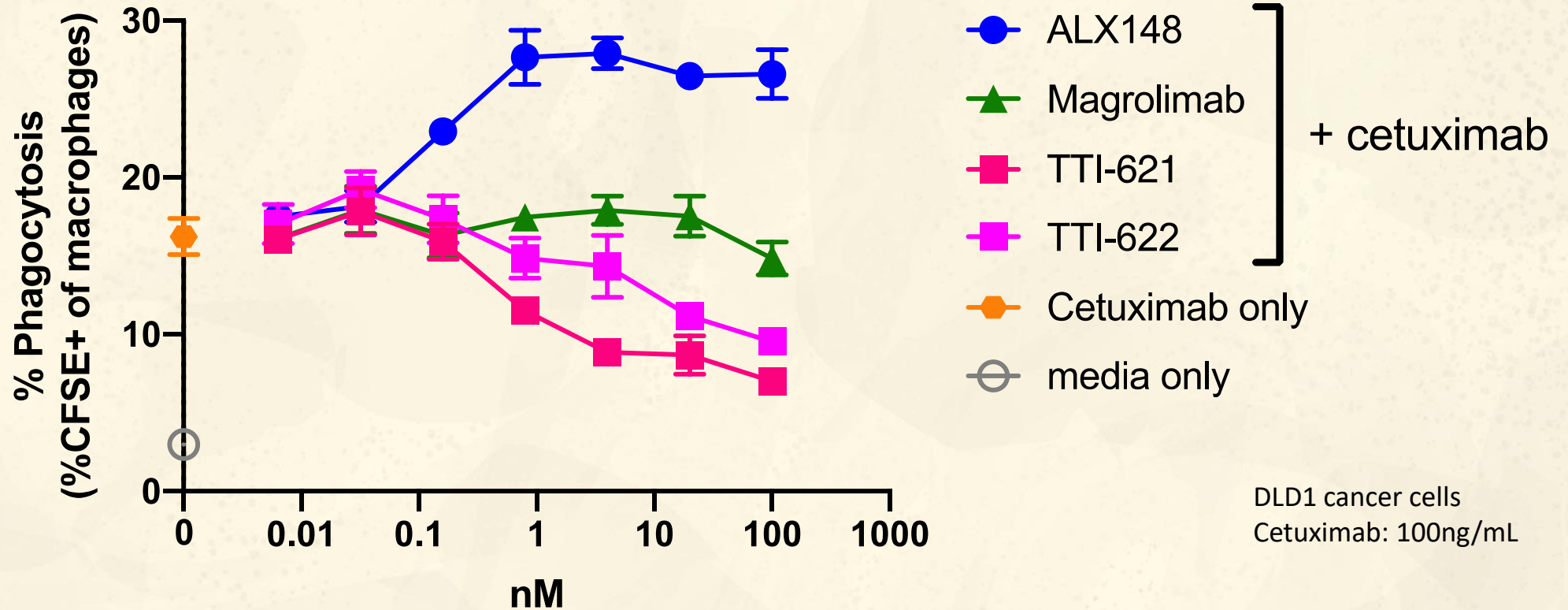


CD47 as TAA does not require 100% receptor occupancy, but there is higher activity at higher occupancy

COMBINATION: ACTIVE FC DOES NOT ENHANCE ANTICANCER ANTIBODY



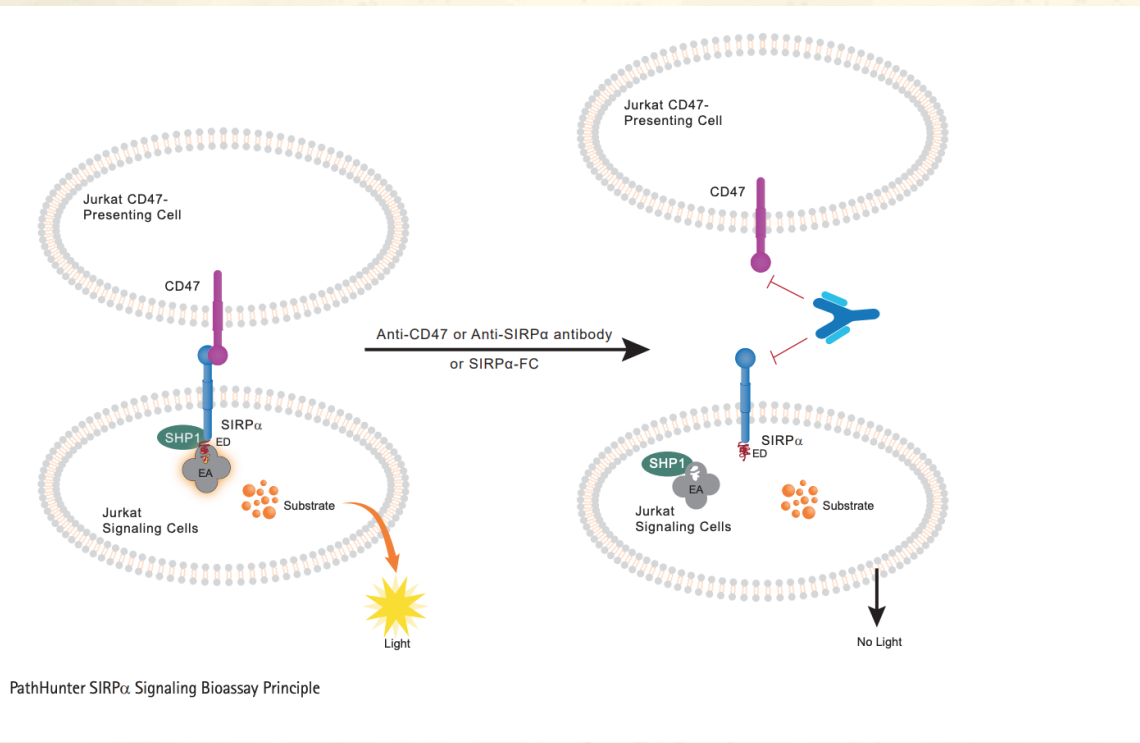
NP Don406 combo



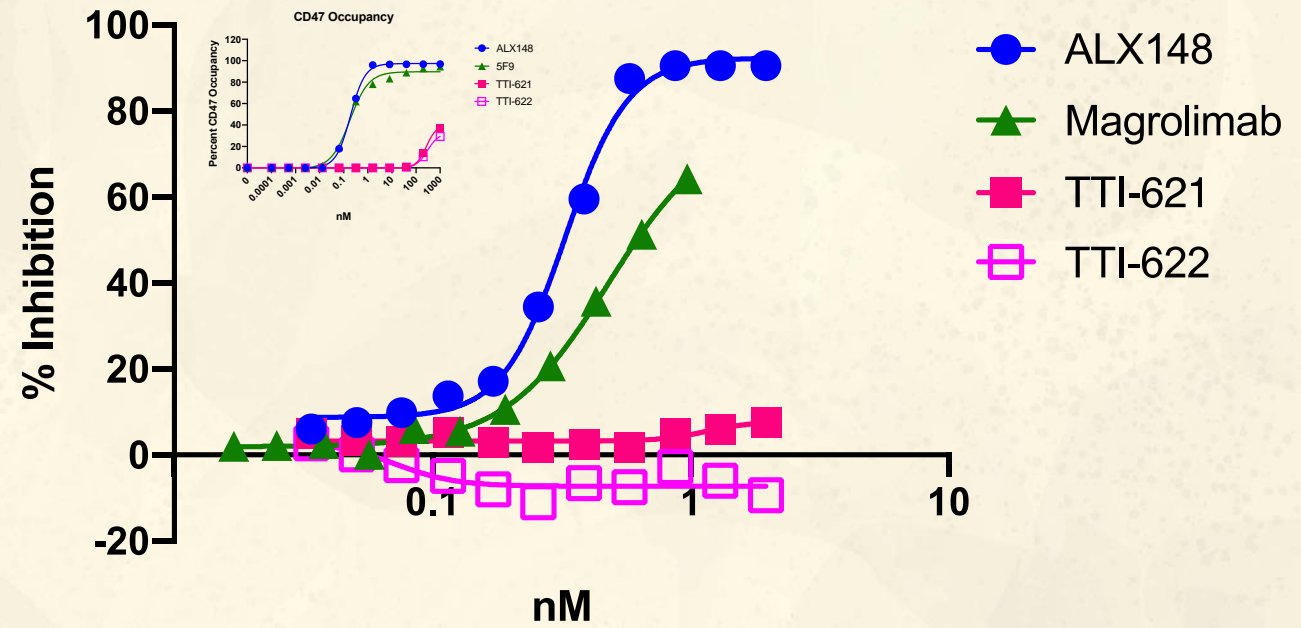
DLD1 cancer cells
Cetuximab: 100ng/mL

High affinity and no effector function maximizes the phagocytosis of combo drug in vitro

CD47 AS CHECKPOINT: HIGH AFFINITY IS REQUIRED TO INHIBIT CELL/CELL INTERACTION



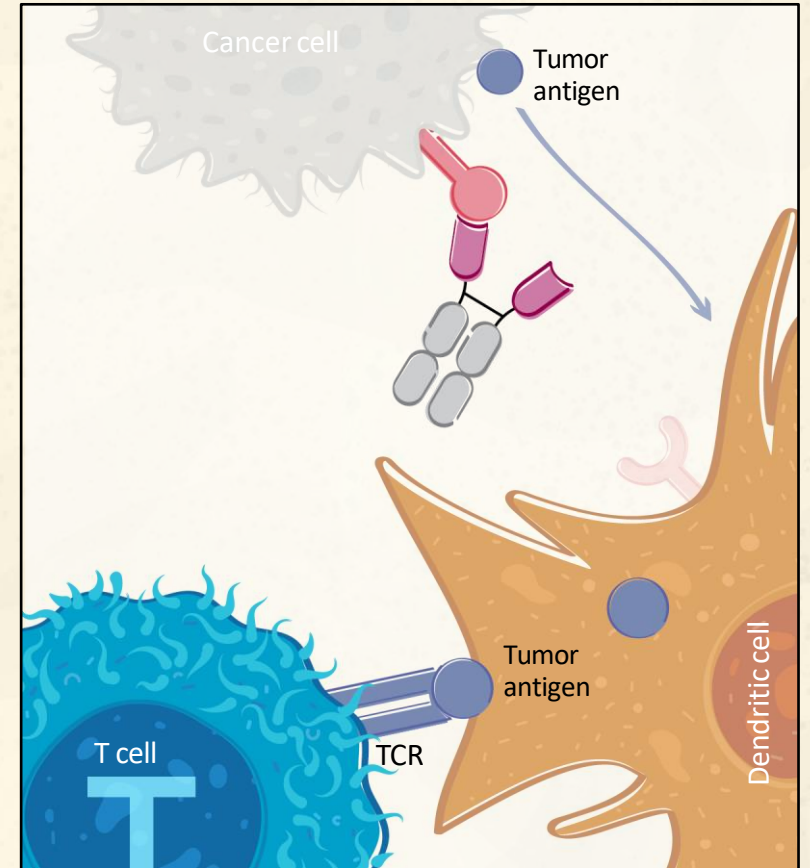
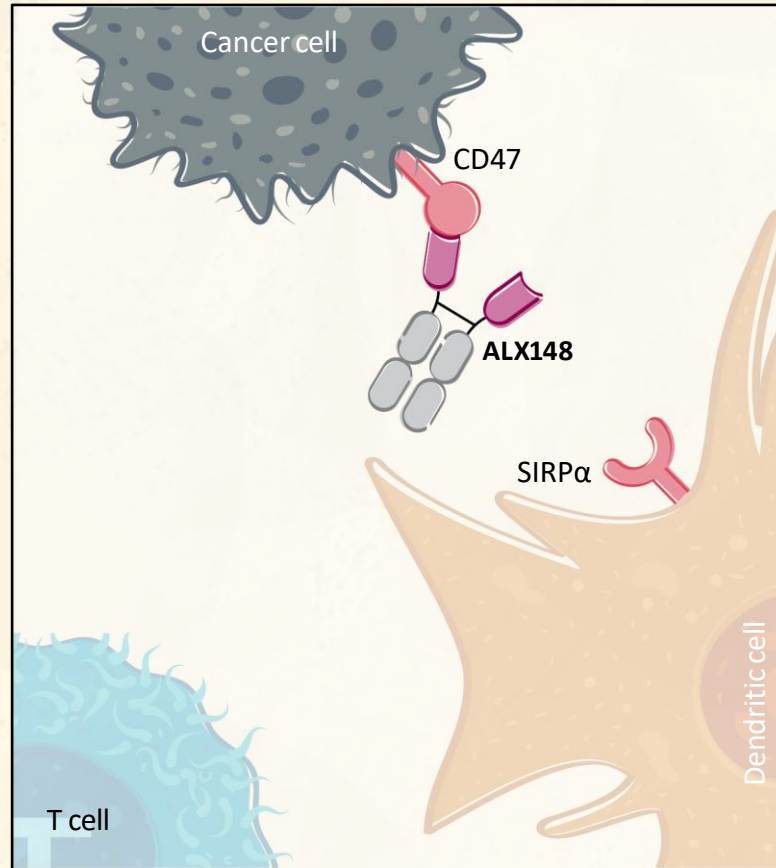
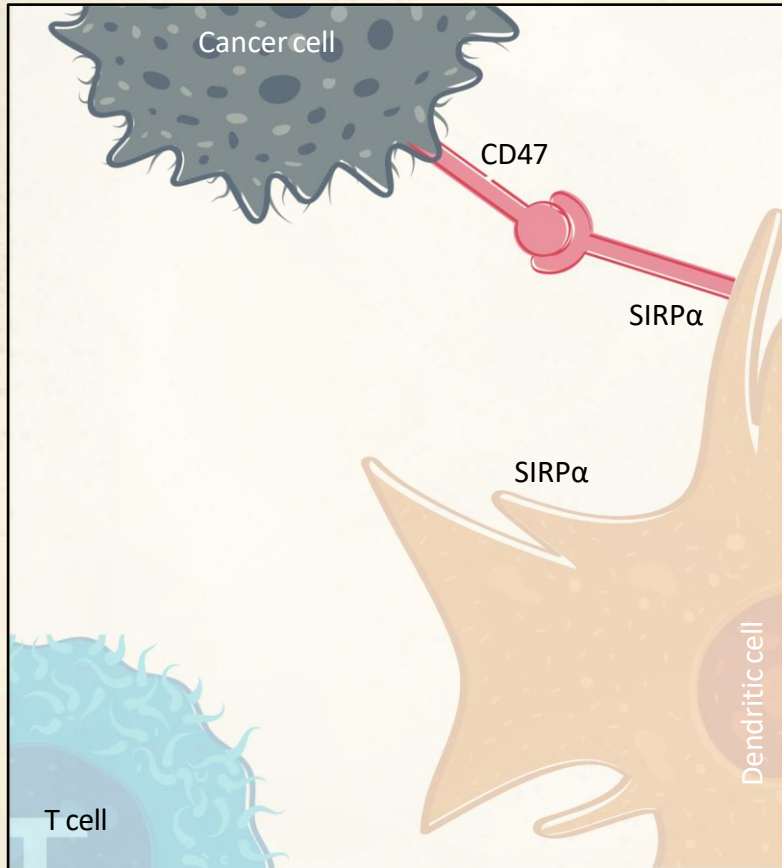
% Inhibition of SIRPα Signaling using the DiscoverX PathHunter SIRPα Signaling Bioassay



100% inhibition is achieved at near complete receptor occupancy level

CD47-SIRP α INTERACTION INHIBIT DENDRITIC CELLS IN TUMOR MICROENVIRONMENT

Blockade of CD47 activate DCs

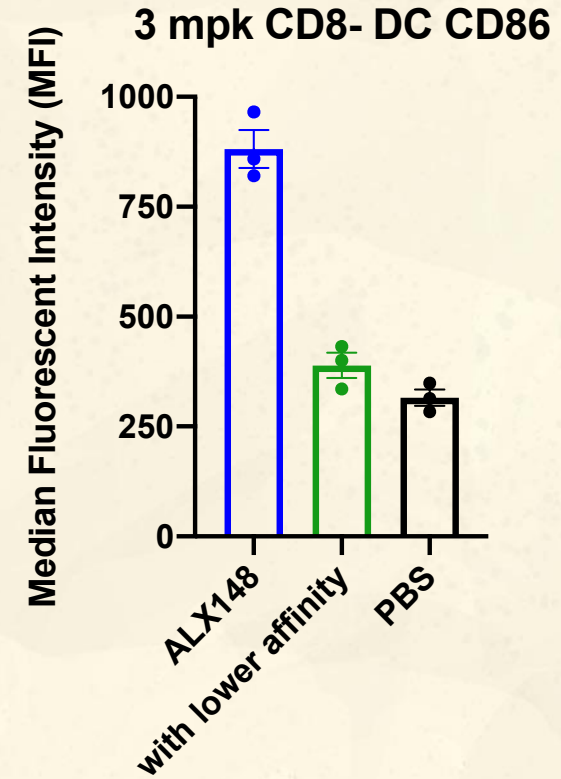
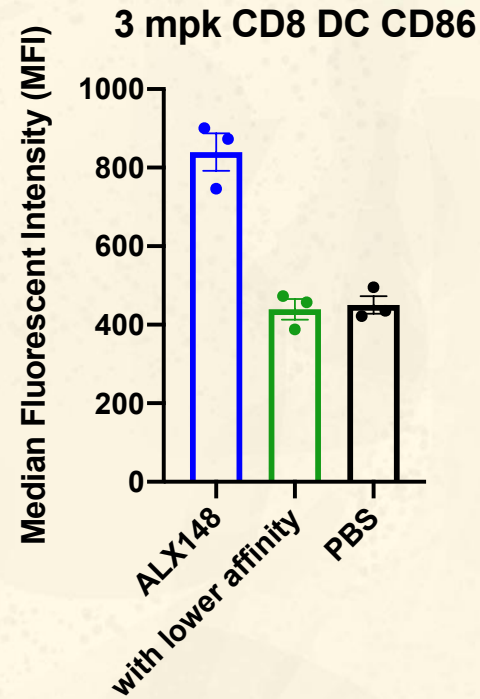
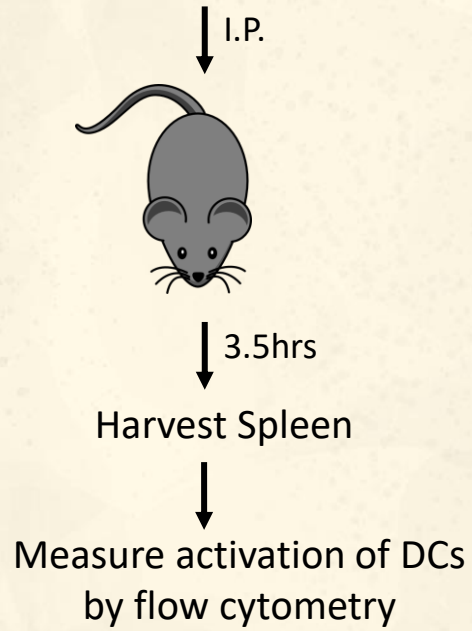


CD47-Sirp α interaction inhibits Dendritic cells and keep macrophages in M2 phenotype

Activated DC present antigens to T-cells and these get activated and attack cancer cells

CD47 AS CP: HIGH AFFINITY IS REQUIRED TO DEREPRESS DC IN VIVO

3 mpk ALX148 or ALX126



mCD47:
ALX148 = KD 9 nM
ALX126 = KD 65 nM

ALX148: METICULOUSLY DESIGNED CD47 BLOCKER

High affinity CD47 binding domain of SIRP α



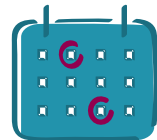
Potently blocks CD47 signal on cancer cells

Inactive Fc domain eliminates binding activity



No dose dependent cytopenia

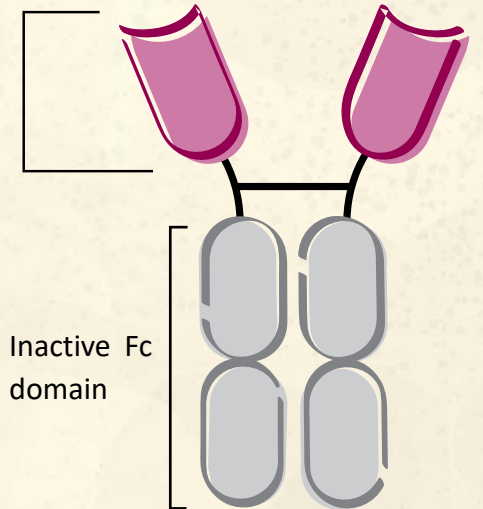
Presence of Fc domain ensures slow clearance and long half-life



Less frequent dosing

Designed for safety and efficacy

High affinity CD47 binding domains of SIRP α



- ~Half the molecular weight of an antibody
- Increases solid tumor penetration
- Standard antibody manufacturing process

PIPELINE: COMBINATION TRIALS WITH ALX148

Indication	IND filing preparation	IND submitted	Phase 1	Phase 2	Phase 3	Fast track
SOLID TUMORS	HNSCC Head And Neck Squamous Cell Carcinoma	Keytruda				
		Keytruda + 5FU + platinum				✓
	GC Gastric/ Gastroesophageal Junction Cancer	Herceptin				
		Herceptin + Cyramza + paclitaxel				✓
HEMATOLOGY	MDS Myelodysplastic Syndromes	azacitidine				
	AML Acute Myeloid Leukemia	azacitidine + venetoclax				
	NHL Non-Hodgkin's Lymphoma	Rituximab				

>150
patients dosed
with ALX148
since 2017

ALX148 DEMONSTRATES CONSISTENT TOLERABILITY PROFILE

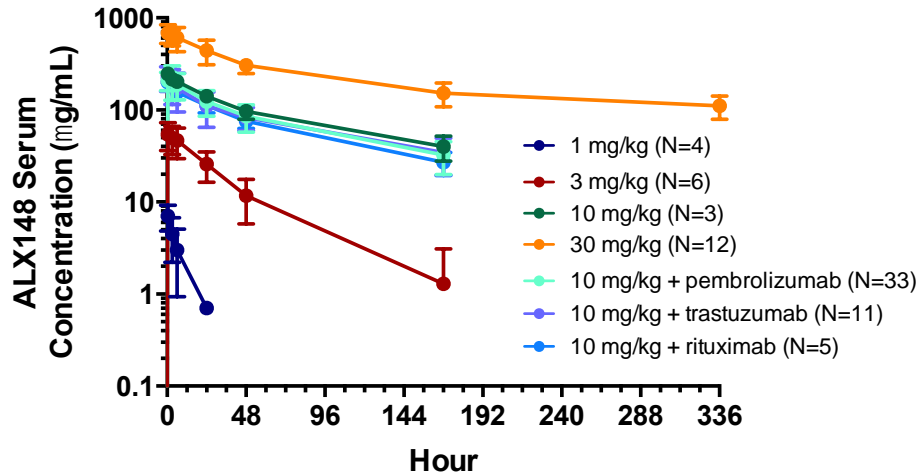
Treatment related adverse events	ALX148 + Rituxan (N=33)		ALX148 + Keytruda (N=52)		ALX148 + Herceptin (N=30)	
	Total n (%)	≥Grade 3	Total n (%)	≥Grade 3	Total n (%)	≥Grade 3
Fatigue	3 (9.1%)	-	6 (11.5%)	-	9 (30.0%)	-
Rash	6 (18.2%)	-	5 (9.6%)	-	-	-
AST increased	-	-	9 (17.3%)	-	-	-
Platelets decreased	-	-	4 (7.7%)	2 (3.8%)	5 (16.7%)	2 (6.7%)
ALT increased	-	-	7 (13.5%)	1 (1.9%)	-	-
Pruritus	-	-	5 (9.6%)	-	3 (10.0%)	-
Pyrexia	-	-	3 (5.8%)	-	3 (10.0%)	-
Decreased appetite	-	-	2 (3.8%)	-	3 (10.0%)	-
Anemia	2 (6.1%)	1 (3.0%)	5 (9.6%)	1 (1.9%)	2 (6.7%)	-
Infusion reaction	-	-	4 (7.7%)	-	-	-
Neutropenia / Neutrophil count decr	2 (6.1%)	2 (6.1%)	2 (3.8%)	1 (1.9%)	2 (6.7%)	2 (6.7%)
Nausea	2 (6.1%)	-	2 (3.8%)	-	2 (6.7%)	-
Alkaline phosphatase incr	-	-	3 (5.8%)	-	-	-
Arthralgia	-	-	3 (5.8%)	-	-	-
WBC decreased	-	-	3 (5.8%)	-	-	-
Myalgia	-	-	2 (3.8%)	-	-	-

Tolerability profile may enable broad combination potential

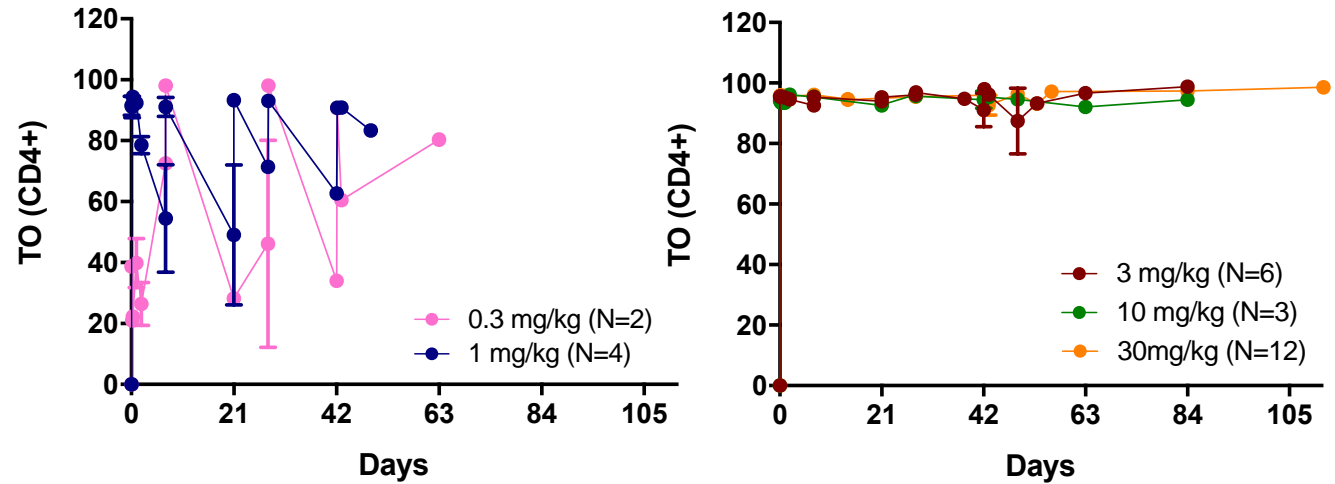
Treatment related adverse events occurring in ≥2 subjects in all histologies at 10 & 15 mg/kg QW.
Data Cutoff 1 April 2020.

ALX148 CLINICAL PHARMACOKINETICS AND CD47 TARGET OCCUPANCY

ALX148 Serum Levels for Cycle 1 Day 1



CD47 Target Occupancy by ALX148



- **Steady-state half-life of ALX148 at 10 mg/kg QW is predicted to be ~30 days.**
- ALX148 PK profile (10 mg/kg QW) is not impacted by combination drugs.

- **Near complete CD47 target occupancy (TO) by ALX148 is maintained at ≥ 3 mg/kg QW across dosing interval**
- 0.3 and 1 mg/kg QW show near complete target occupancy at peak, but not at trough

NHL PROOF-OF-PRINCIPLE TRIAL

Phase 1b NHL cohorts



Relapsed/Refractory NHL,
prior regimen with Rituxan



Treatment:

ALX148 10 or 15 mg/kg once a week (QW)
+
Rituxan 375 mg/m² once a week for 4 weeks, once monthly for 8 months

Population	10 mg/kg QW		15 mg/kg QW	
	N	ORR	N	ORR
All	22	40.9%	11	54.6%
Aggressive	15	33.3%	7	42.9%
Indolent	7	57.1%	4	75.0%

ALX148
demonstrated higher
response rate
at higher dosing

EHA 2020 Abstract EP1247

N=Response evaluable patients

Indolent = Follicular Lymphoma and Marginal Zone Lymphoma.

Aggressive = Diffuse Large B-cell Lymphoma and Mantle Cell Lymphoma.

ORR = Objective Response Rate.

ALX148 HAS INITIAL CLINICAL ACTIVITY ACROSS TUMOR TYPES IN MULTIPLE TRIALS

Population	≥2L HER2+ GC		≥2L HER2+ GC	≥2L HNSCC (CPI-Naïve)		1L HNSCC		≥2L NHL
Combination	ALX148 + Herceptin + Cyramza + paclitaxel		ALX148 + Herceptin	ALX148 + Keytruda		ALX148 + Keytruda + 5FU + platinum		ALX148 + Rituxan
N-evaluable	9		19	10		3		33
ORR	ALX148 66%	Benchmark 28%	21%	ALX148 40%	Benchmark 15%	ALX148 66%	Benchmark 36%	54.6%
Benchmark regimen	Cyramza + paclitaxel			Single agent Keytruda		Keytruda + 5FU + platinum		

Solid tumor data as of June 30, 2020. NHL data as of April 1, 2020 EHA June 2020 Abstract EP1247. ORR = Objective Response Rate, CPI = checkpoint inhibitor. Ram/pac benchmark in GC from RAINBOW Ph3 trial (Wilke, Lancet Oncology, 2014); Keytruda single agent benchmark from KEYNOTE-40 Ph3 trial (Cohen, Lancet, 2018). Keytruda + chemo benchmark from KEYNOTE-48 Ph3 trial (Burtness, Lancet, 2019).

SUMMARY



High affinity and no effector function is required to fully inhibit CD47 safely



ALX148 tolerability profile enables combination with a wide range of agents



Demonstrated clinical tolerability with anti-cancer antibodies and chemotherapy



Clinical proof-of-principle in hematologic and solid tumors

ACKNOWLEDGEMENTS

- **Stanford University scientists that originated the idea**
- **Current and past ALX Oncology members that brought it here**
- **Clinicians that believe in ALX148 potential**
- **Patients and their families that trust us**