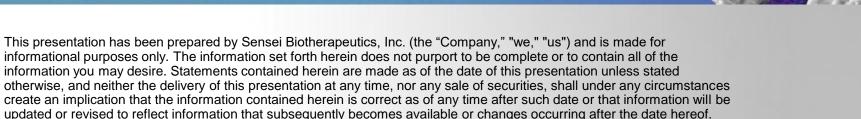


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### **Engineered Selectivity to Extend the Reach of Immuno-oncology Agents**

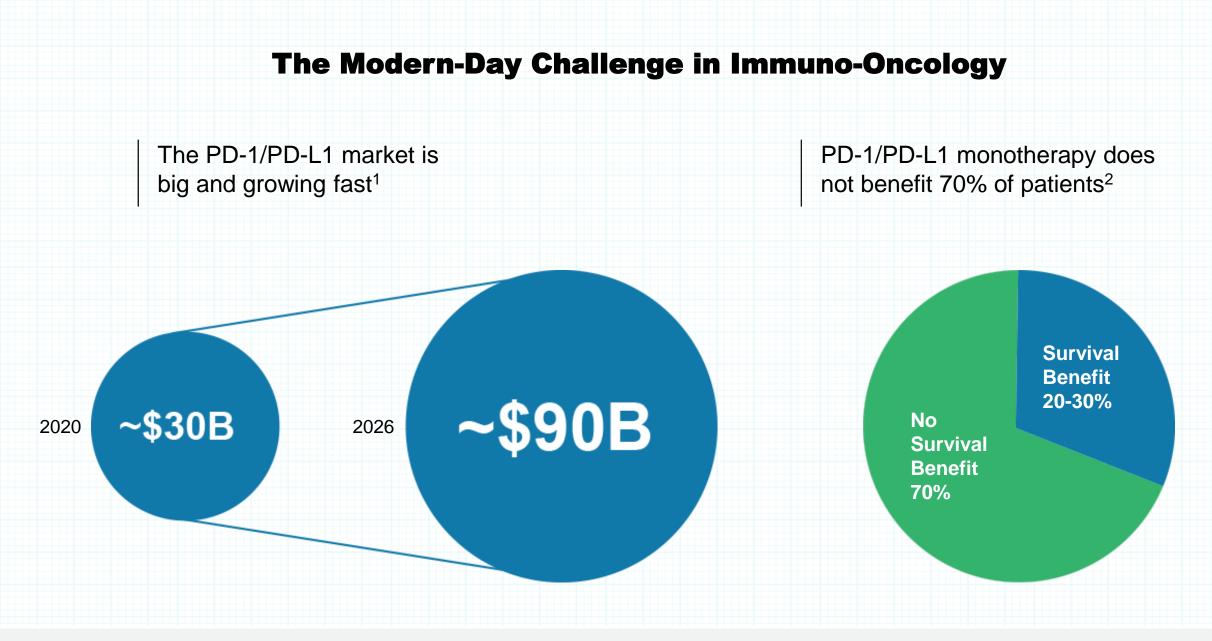




### **Innovative Pipeline of IO Drugs with Broad Commercial Potential**

Program (Target)	Indication	Discovery	IND-enabling	Phase 1 / 2 Clinic
SNS-101 (VISTA)	Solid Tumors			
SNS-102 (VSIG4)	Solid Tumors			
SNS-103 (ENTPDase1/CD39)	Solid Tumors			







### Lack of Selectivity is a Major Obstacle to CI Innovation

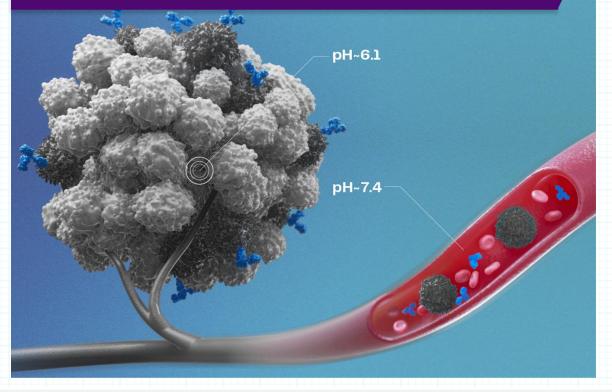
roblem	Sensei's Solution			
ghly expressed in	Conditionally active antibodies are selectively targeted to the tumor microenvironment, potentially providing:			
higher and more frequent dosing	Little or no toxicity due to selective on-target/on-tumor action Lower and less frequent doses by avoiding normal tissue binding Powerful activity selectively focused on the tumor microenvironment			
(anti-CTLA-4) (anti-	D-1) (anti-LAG-3)			
		es target immune ighly expressed in ng in: wet/off-tumor action higher and more frequent dosing and dose-limiting toxicities Little or no toxicity due to selective on-target/on-tumor action Lower and less frequent doses by avoiding normal tissue binding Powerful activity selectively focused on the tumor microenvironment (anti-CTLA-4) Pembrolizumab (anti-PD-1)		



### pH-sensitive Antibodies Have Potential to Selectively Bind Their Targets in the Low-pH Tumor Microenvironment

### **TMAb Platform**

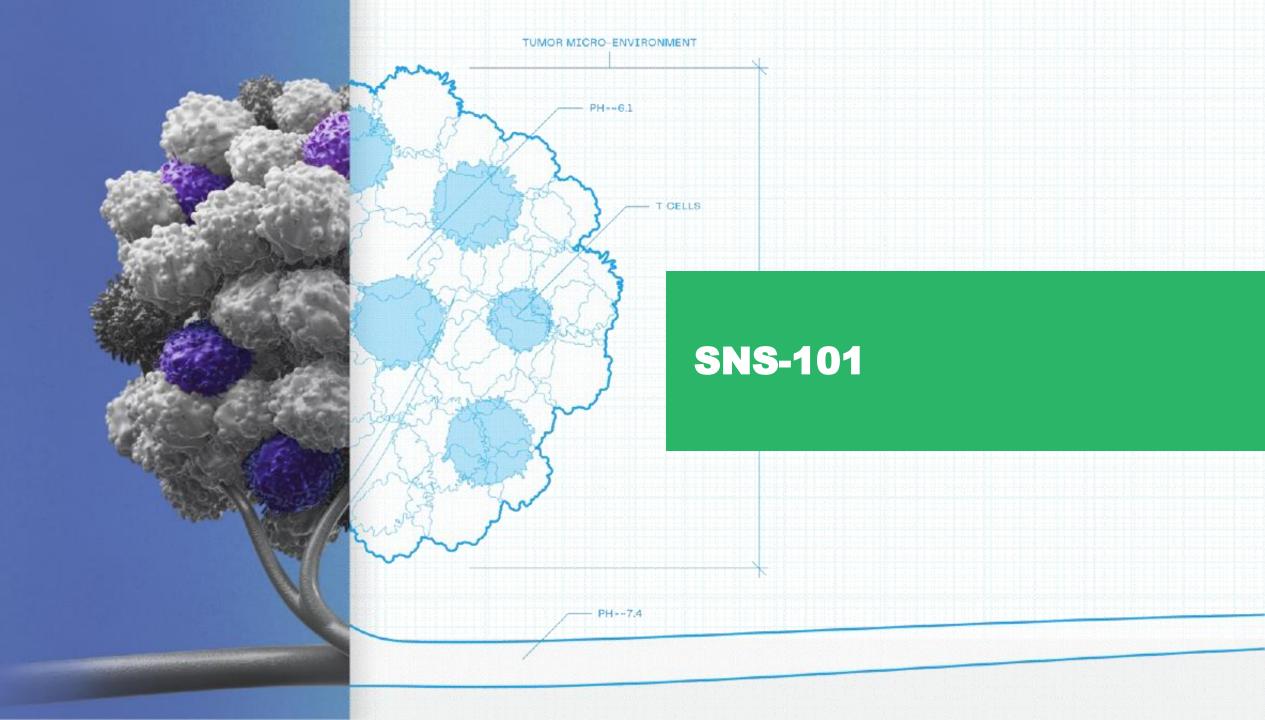
# The tumor microenvironment of pH ~6 is lower than physiological pH of 7.4



Sensei's technology identifies pH-sensitive antibodies designed to bind only at the tumor

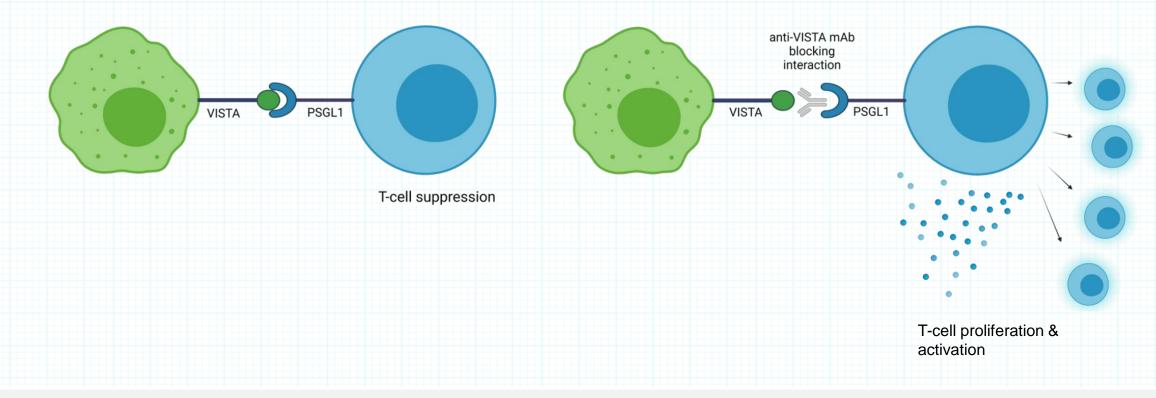
- Exploits the tumor microenvironment using pHselective properties
- Intended to alleviate undesirable properties:
  - Dose-limiting toxicities due to on-target/offtumor binding
  - Higher and more frequent dosing due to poor pharmacokinetics (Target-mediated Drug Disposition (TMDD))
- Bolsters specific activities
- Goal is to unlock previously undruggable immune targets





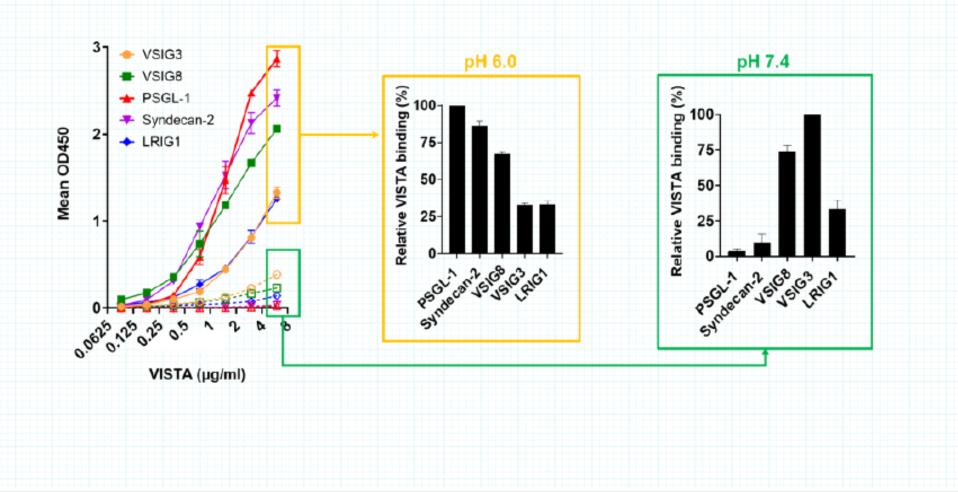
### VISTA: A Potent T cell Checkpoint Extensively Expressed on Myeloid Cells<sup>1</sup>

VISTA is a B7 family member that suppresses T cell function





### The VISTA:PSGL-1 Interaction is Selective for low pH

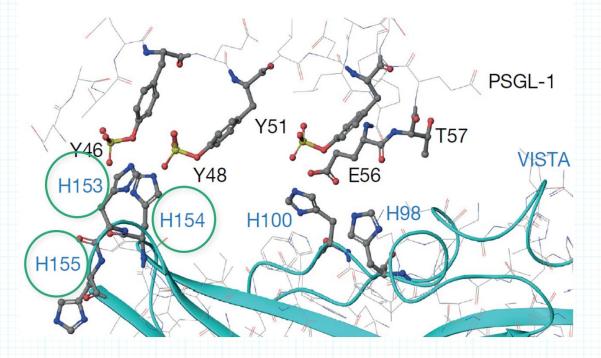




### **VISTA Checkpoint is Activated at the Low pH of the Tumor Microenvironment**

VISTA extracellular domain is uniquely rich in histidines<sup>1</sup>

Protonated VISTA histidines are required for PSGL-1 binding<sup>1</sup>





### **SNS-101: Selectively Targeting VISTA with a pH-sensitive Antibody**

### **Key features**

- Selectivity for Active VISTA<sup>pH6</sup> over VISTA<sup>pH7.4</sup>
- Designed to block VISTA's interaction with PSGL-1 and all other T-cell receptors at pH 6.0
- IgG1 format
- Active Fc

### **Development milestones**

- Preclinical PK, safety and efficacy data presented at conferences throughout 2022
- IND submission planned for 1H23

	рН 6.0	pH 7.4
Monovalent Affinity (K <sub>D</sub> ) [nM]	0.218	132 (~No binding)



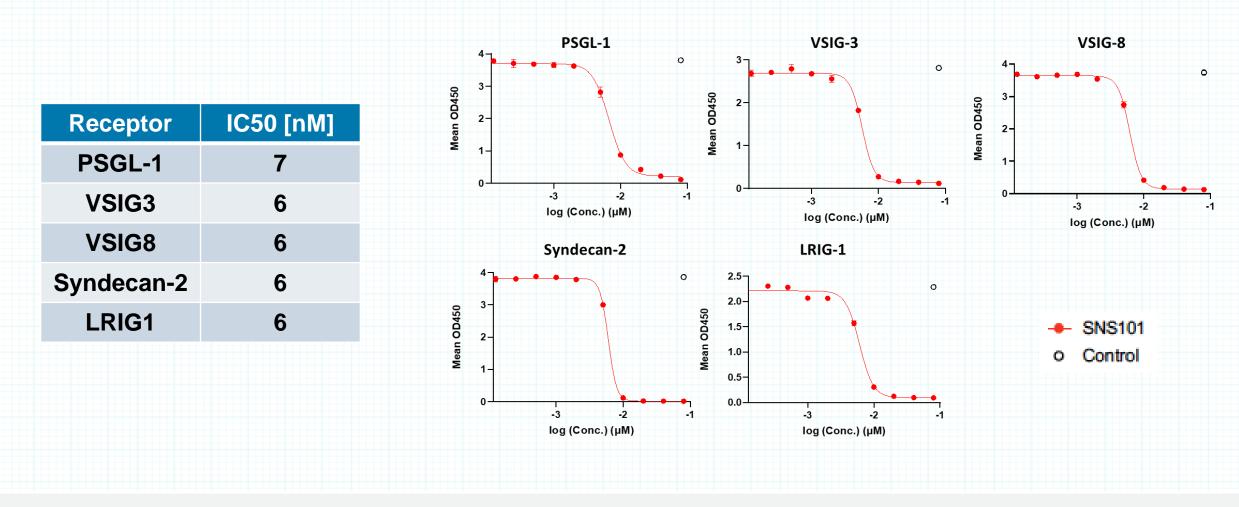
### **SNS-101 Is a Fully Differentiated Anti-VISTA Antibody**

	SNS-101 Sensei	CI-8993; JNJ-61610588 (J&J/Curis)	K01401-020; W0180 (Pierre Fabre)	HMBD-002 (Hummingbird)	KVA12.1 (Kineta)	VISTA.18 (BMS)	(PMC-309) Pharm Abcine
Inhibit PSGL-1 Binding	$\bigotimes$	$\bigotimes$	$\bigcirc$	$\bigotimes$	$\bigcirc$	$\bigcirc$	$\bigcirc$
pH Sensitive Binding	$\bigotimes$	$\bigotimes$	$\bigotimes$	$\bigotimes$	$\bigotimes$	$\bigotimes$	$\bigotimes$
Fc Active	(lgG1)	(lgG1)	N/A	$\bigotimes$	(lgG1)	(IgG4)	(lgG1)
Stage	Preclinical	Phase 1	Phase 1	Phase 1	Preclinical	Preclinical	Preclinical



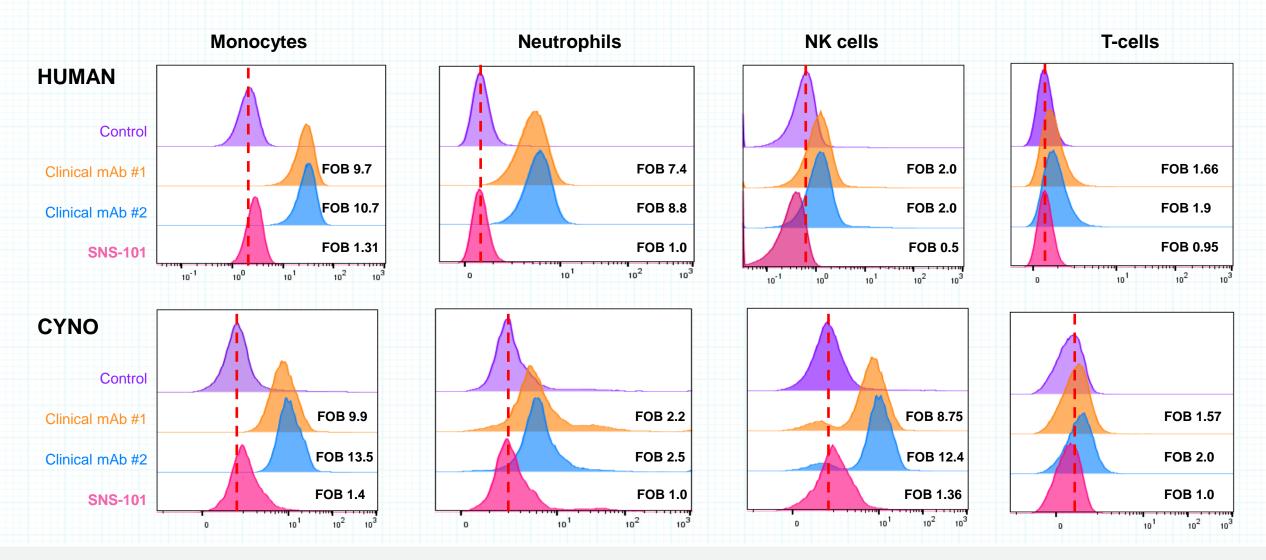
Johnston et al., Nature 2019; Kineta website; Snyder et al, AACR Annual Meeting 2016; Pierre Fabre website; Hummingbird website; Thakkar et al, J of Immunother Cancer, 2022; PharmAbcine website

### SNS-101 Strongly Inhibits the VISTA:PSGL-1 Interaction And All Other Potential Binding Partners at pH 6.0 in *In Vitro* Assay



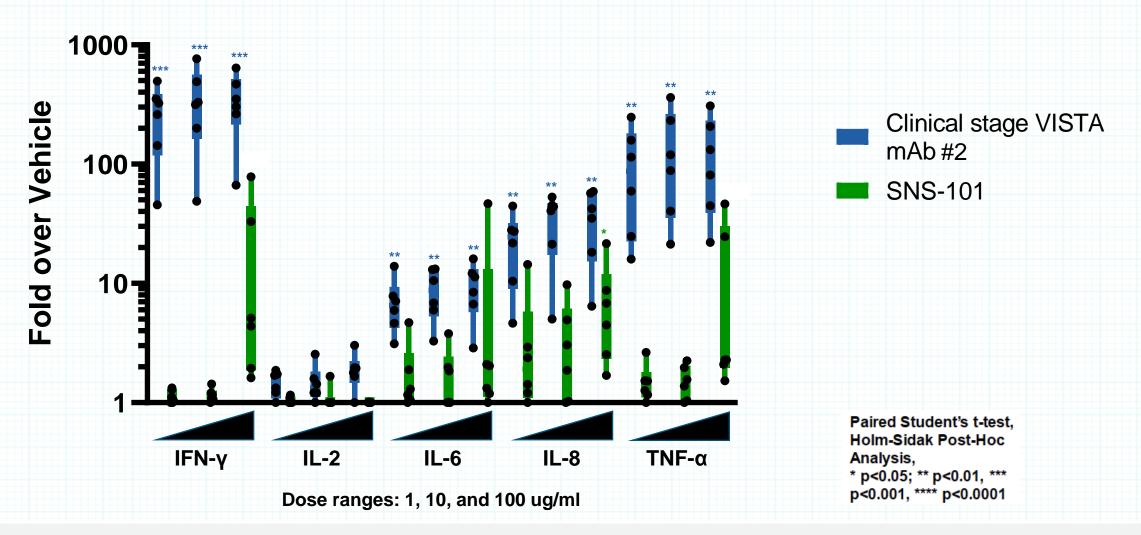


### No Significant Binding of SNS-101 to Monocytes, Neutrophils, NK Cells and Tcells in Whole blood at Physiological pH



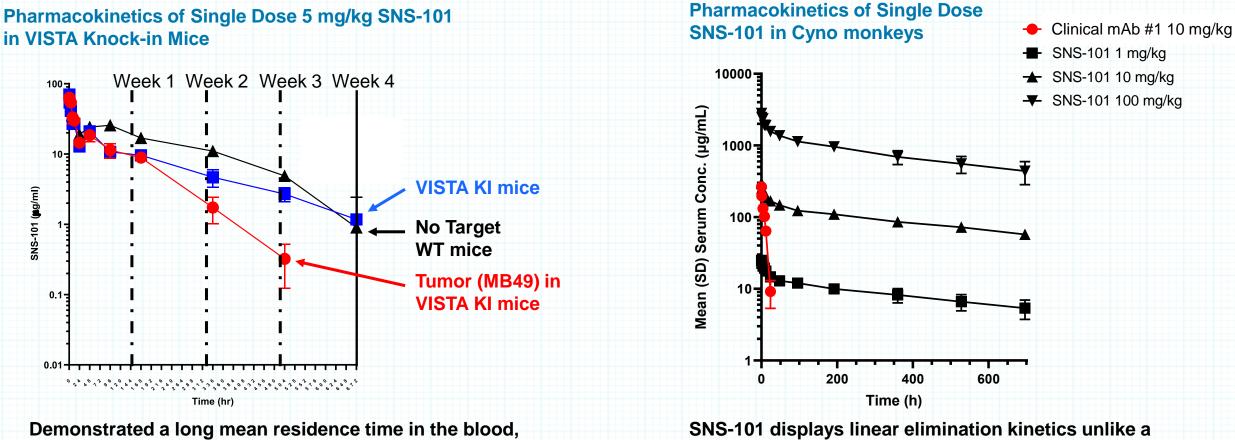


### SNS-101 Induced Substantially Lower Cytokine Release in Whole-blood Assay at Neutral pH Compared to pH-independent VISTA Antibody





# SNS-101 Has Displayed a Favorable Single-dose PK Profile in Preclinical Studies - *No Significant TMDD in Human VISTA KI Mice or Cyno Monkeys*

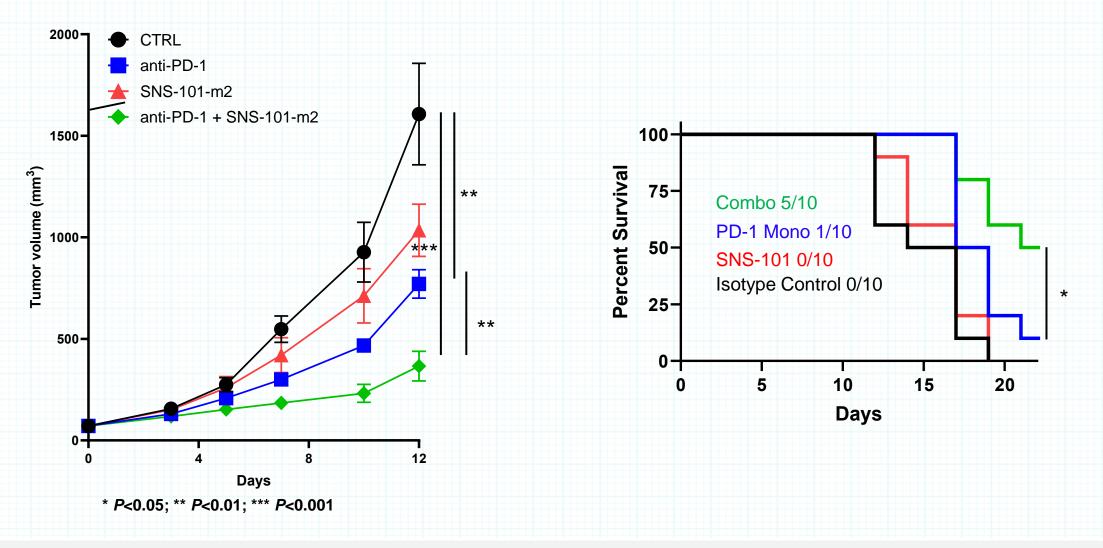


Demonstrated a long mean residence time in the blood, indicating a lack of significant target-mediated drug disposition (TMDD) and clearance in non-malignant tissues

sensei

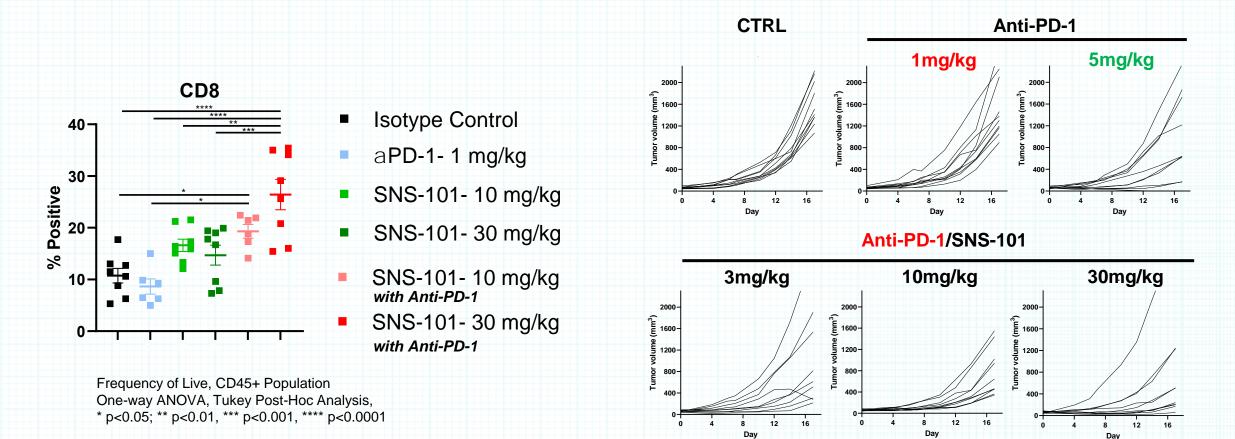
SNS-101 displays linear elimination kinetics unlike a pH-independent anti-VISTA mAb, which demonstrates TMDD and rapid clearance

### SNS-101 Demonstrated Strong Combinatorial Activity with Anti-PD-1 in MC38 Model in Human VISTA Knock-in Mice



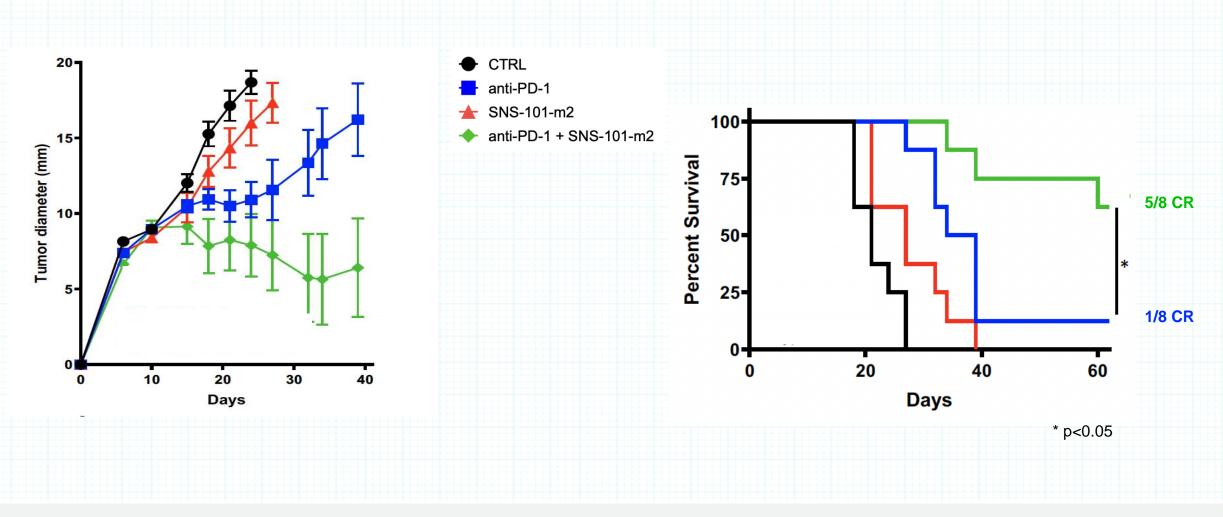


### SNS-101 Demonstrated Increased CD8 T-cells in Combination With Anti-PD-1 in MC38 Tumors *In Vivo*





### SNS-101 Re-sensitized Anti-PD-1 Insensitive Sarcomas Tumors in 1956 Model in Human VISTA Knock-in Mice





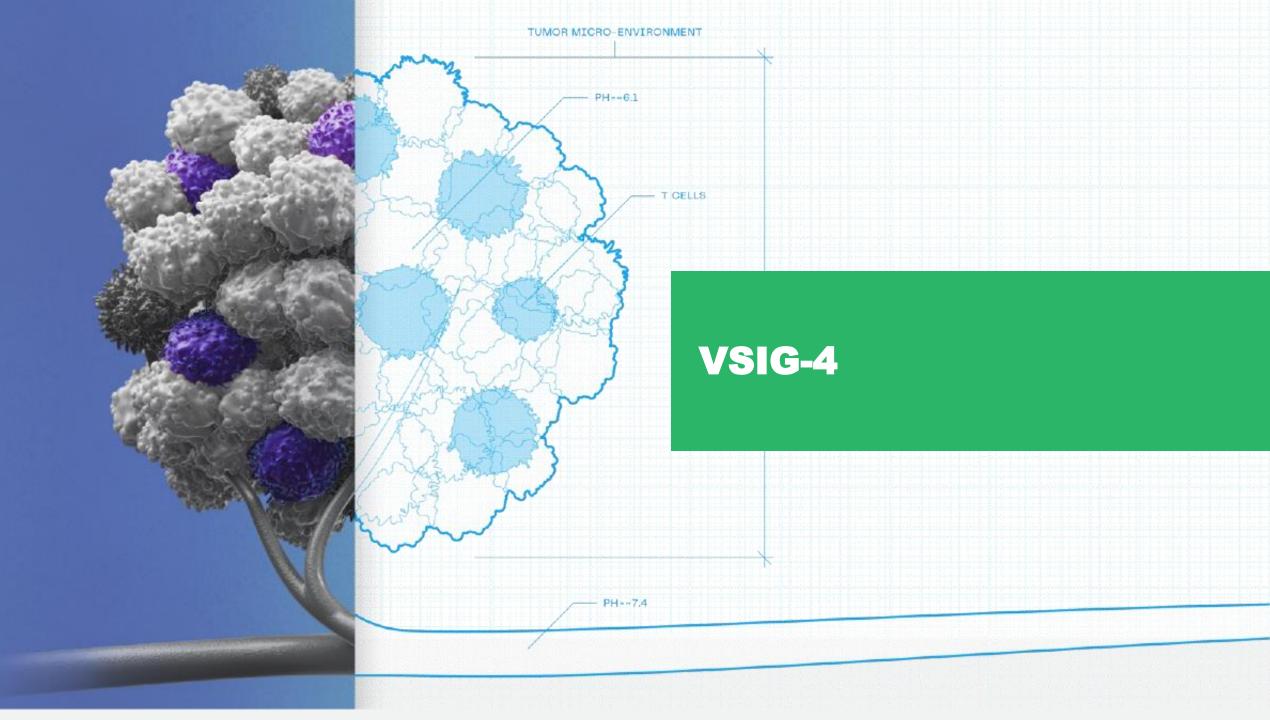
#### **Preliminary SNS-101 Phase 1/2 Study Schematic** Phase 1 Dose Escalation Monotherapy Phase 2 Cohort Expansion \*\*\* **Projected Scheme \*** Mono Cohort A Mono **Expansion Cohort A** Cohort B **Expansion Cohort B** Monotherapy Mono RP2D\*\* Cohort X Phase 1 Dose Escalation Combination **Projected Scheme \* Expansion Cohort X** Combo Cohort A Combo Cohort B Combo Combination Cohort C RP2D\*\*



 \* Phase 1/2 study design is preliminary and subject to change, including based on feedback from the FDA following submission of IND.
 \*\* RP2D = Recommended Phase 2 Dose

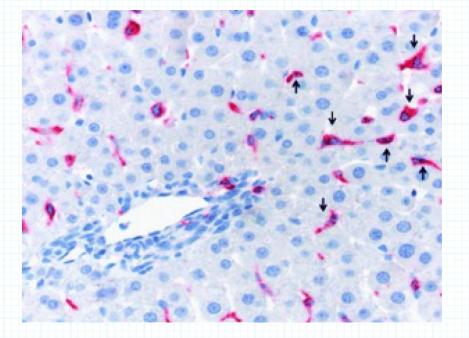
\*\*\* Tumor types, indication and samples size to be determined based on findings from dose-escalation phase and emerging scientific data; cohorts may run concurrently.

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### VSIG4 is an Immunosuppressive Receptor Expressed On- and Off-tumor

Tissue macrophages (Kupffer cells) in liver

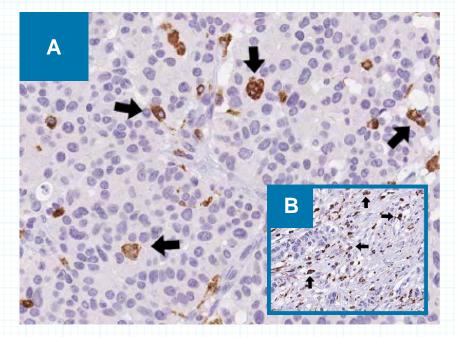




In the liver, VSIG-4 ... Is expressed on Kupffer cells

Appears to drive significant target-mediated drug disposition (TMDD) and clearance

Tumor-associated macrophages in tumor and stroma (inset)





In the tumor microenvironment, VSIG-4 ... Correlates with immunosuppressive "M2" macrophage infiltration

Inhibits T cell activation

Promotes tumor growth based on data from a syngeneic Lewis lung carcinoma model in knockout mice

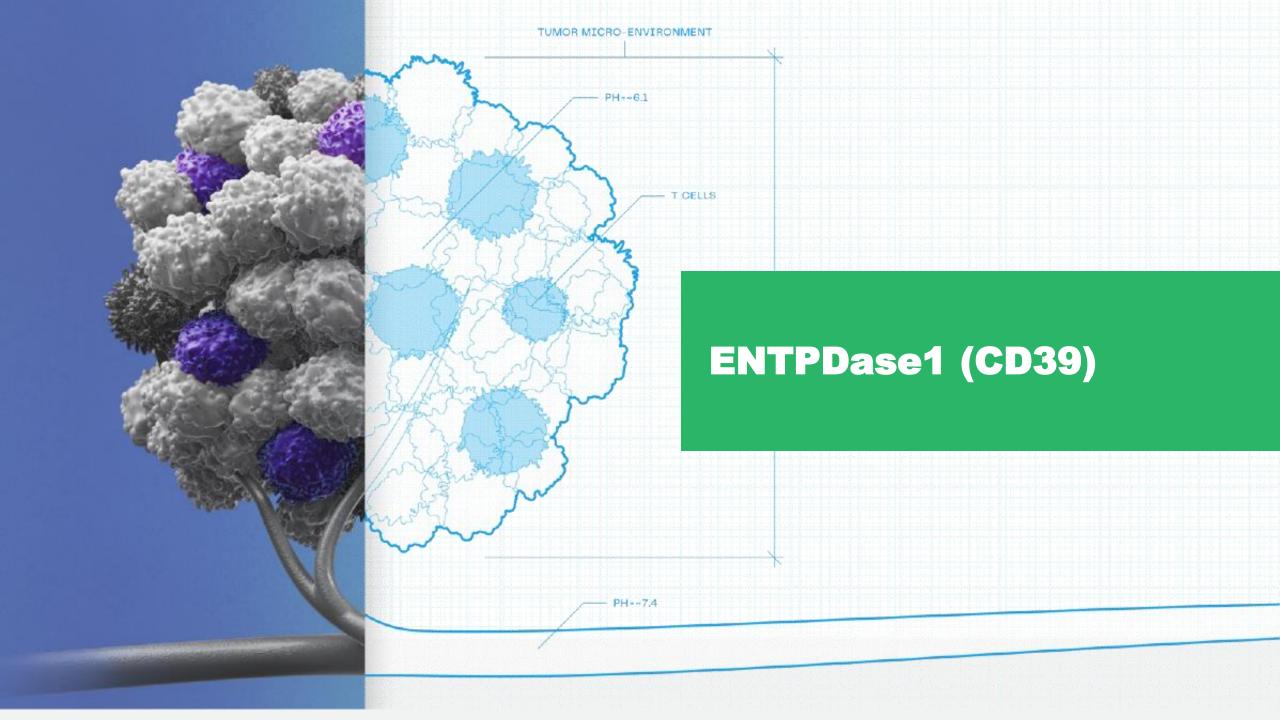


### **Sensei Has Identified pH-sensitive VSIG4 Antibodies**

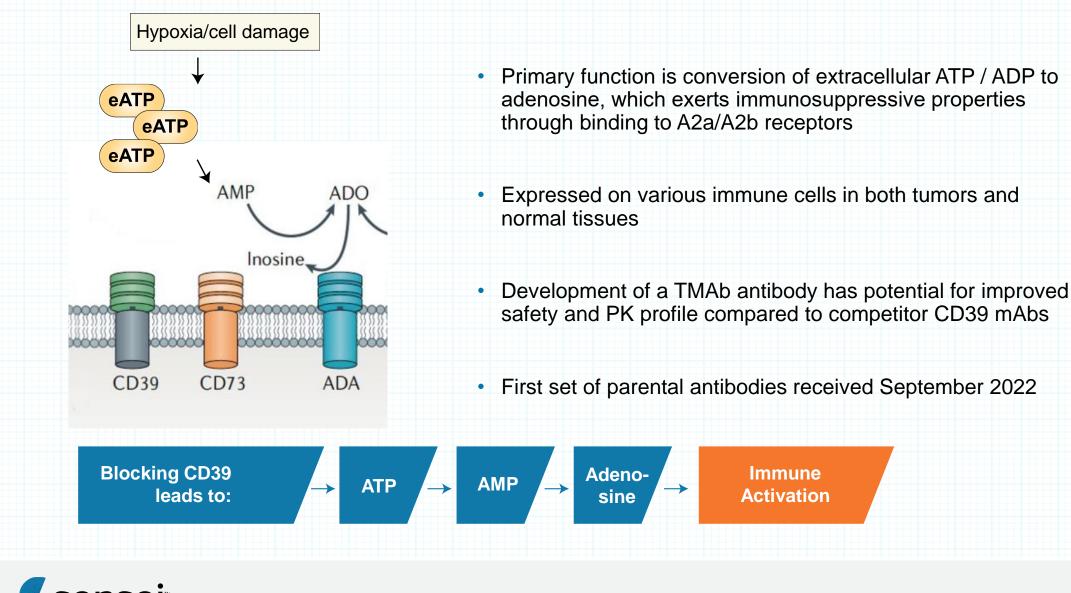
<ul> <li>As of August 2022, Sensei has:</li> <li>Identified 8 parental antibodies for further optimization;</li> </ul>	Antibody Reference #	Ratio of pH Selectivity (6.0 vs 7.4)	Blockage of Immobilized VSIG4- T-cell Inhibition	Blockage of Cellular VSIG4- T-cell Inhibition	
<ul> <li>Identified novel VSIG4 receptors on primary T-cells by Hi-Res proteomics, which are currently in verification stage;</li> </ul>	1	1 7	+	+	
<ul> <li>Identified pH-sensitive antibodies highlighting the potential breadth of the TMAb platform</li> </ul>	3	1 3	+	+ +	
<ul> <li>Plan to select product candidate in 2023</li> </ul>	5	3	+/-	+	
	6	25	+	+	
	7	1	+	+	
	8	2	-	+	
	* Ratio assessed I	ed by flow cytometry on VSIG4 overexpressing cells			

pH-Sensitive VSIG4 Parental Antibodies Selected for Further Optimization





### ENTPDase1 (CD39) is the Rate Limiting Enzyme in the Production of Immunosuppressive Adenosine



BIC

## **Expected Program Milestones**

### SNS-101 (anti-VISTA)

- 1H 2023: Multi-dose Non-Human Primate (NHP) PK & Toxicology data
- 1H 2023: IND filing

### SNS-102 (anti-VSIG4)

• **2023:** Select product candidate

### SNS-103 (anti-ENTPDase1/CD39)

• **2023:** Select product candidate



### **Engineered Selectivity to Extend the Reach of Immuno-oncology Agents**





### **Proven Team With Deep Experience**



John Celebi, MBA President and CEO



Erin Colgan Chief Financial Officer

vertex Intarcia pwc



Robert Pierce, M.D. Chief R&D Officer



Patrick Gallagher Chief Business Officer

FlagShip abbvie A Nuvation Bio



Elisabeth Colunio VP, Human Resources

Collegium. Quanterix (Alkermes



Edward van der Horst, Ph.D. SVP, TMAb Antibodies



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### Appendix

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