

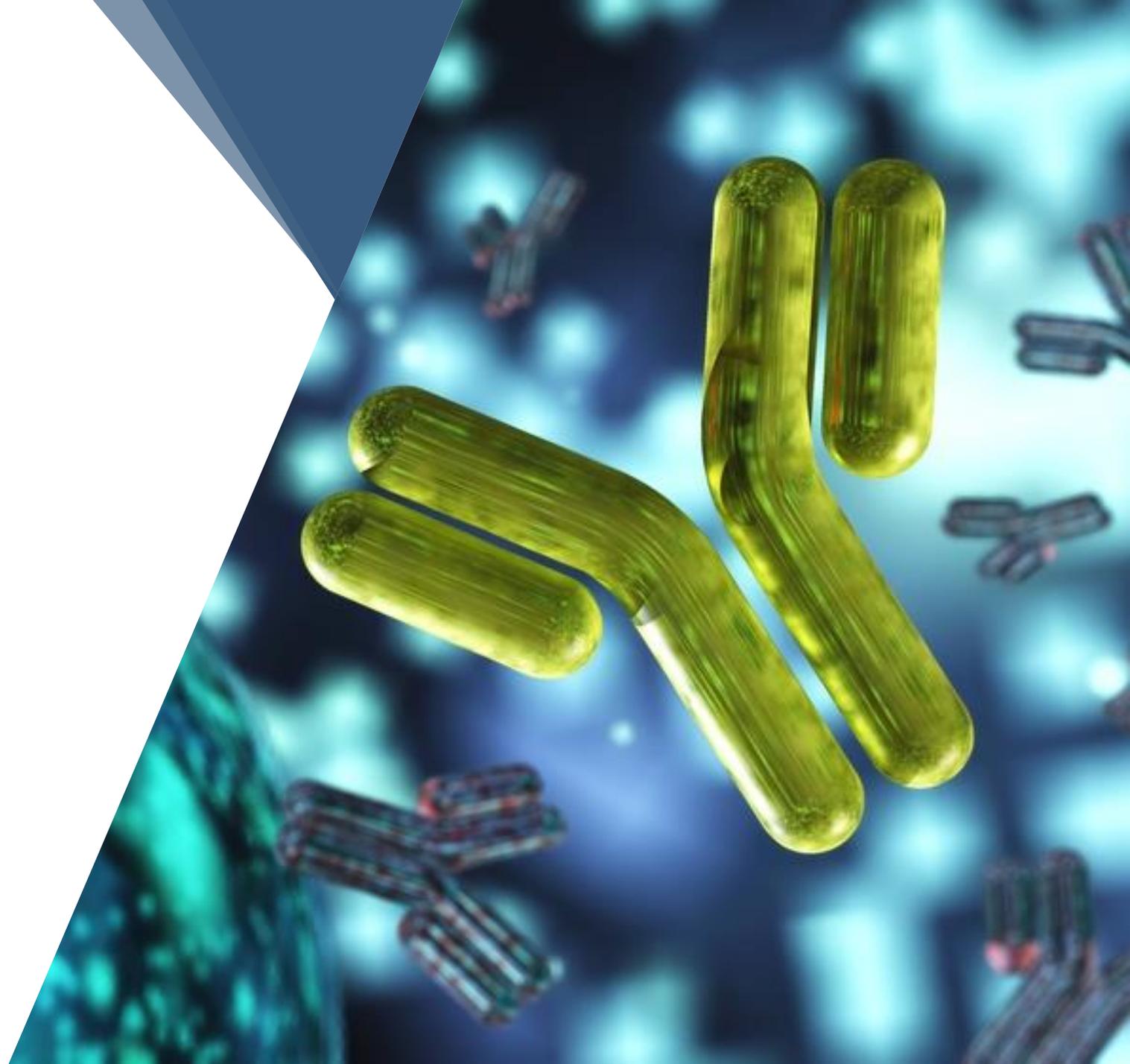


R&D Laboratories

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Chief Scientific Officer

December 11, 2019



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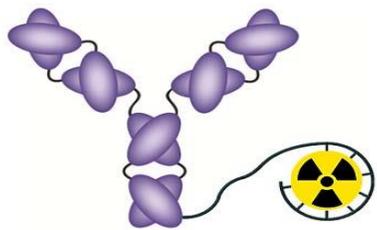
“For a cancer that was once incurable, a cure is definitely within reach today.”



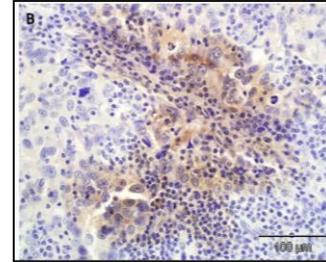
Y-mAbs R&D Laboratories: Continuing the legacy of creative innovation for pediatric cancer



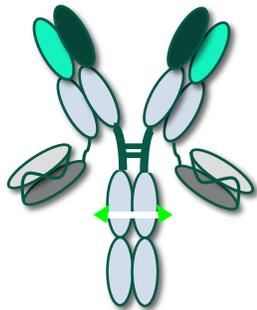
R&D and Translation: Complete Approach to Cancer Treatment



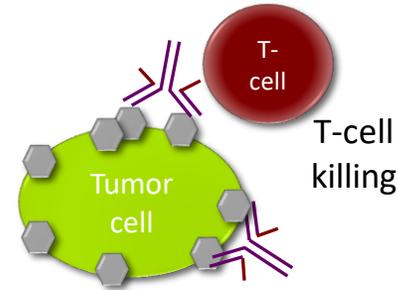
Patient Selection



Companion Diagnostic



Treatment



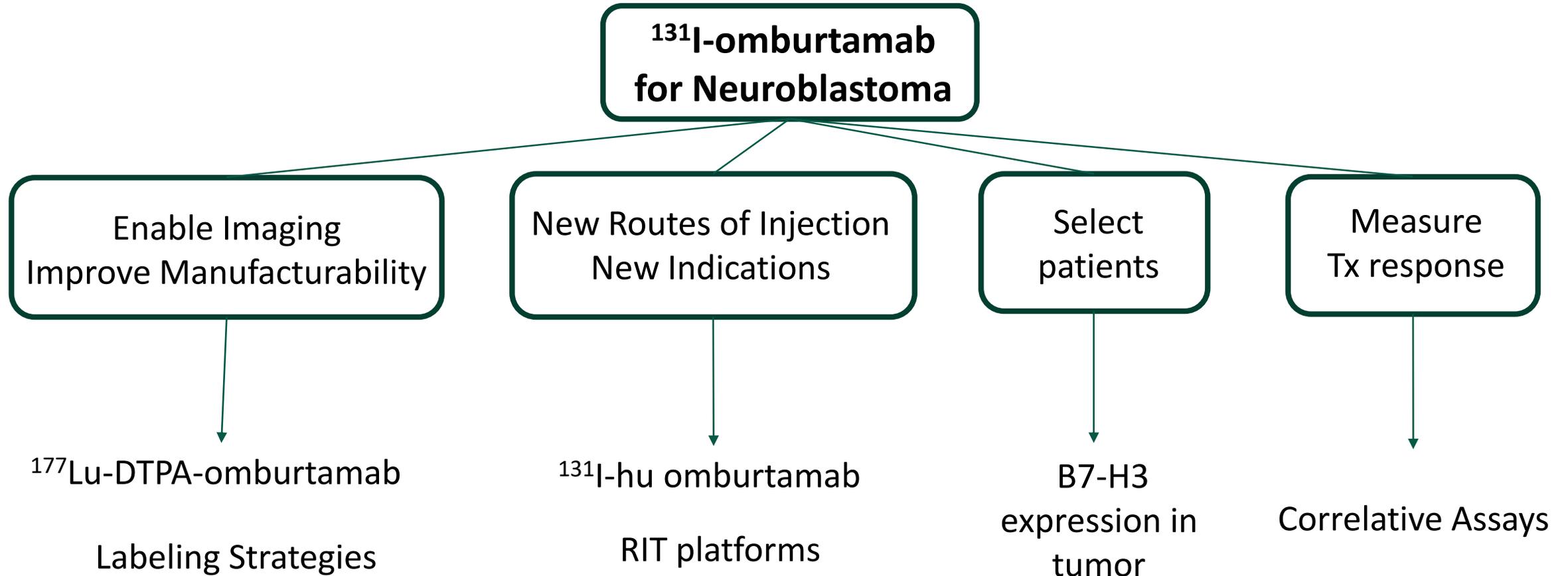
Immunotherapy

Response to Treatment



Theranostic

B7-H3 Program



B7-H3 is expressed on numerous pediatric and adult solid tumors

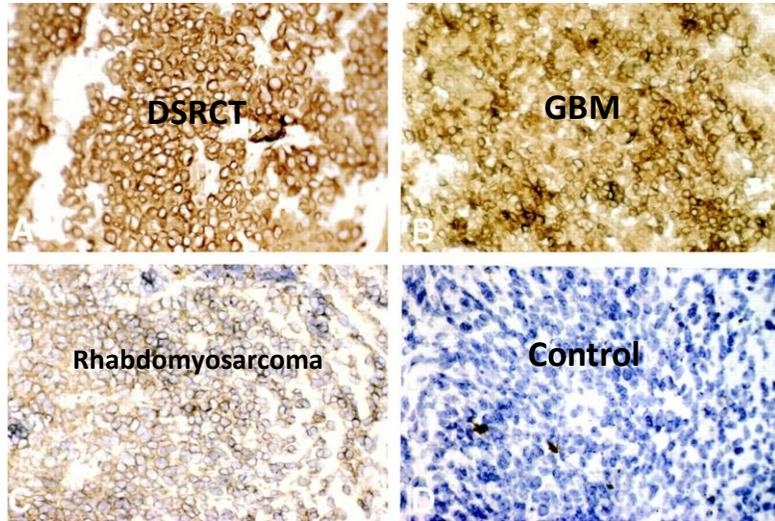


Table 1 8H9 reactivity: Neuroectodermal tumors

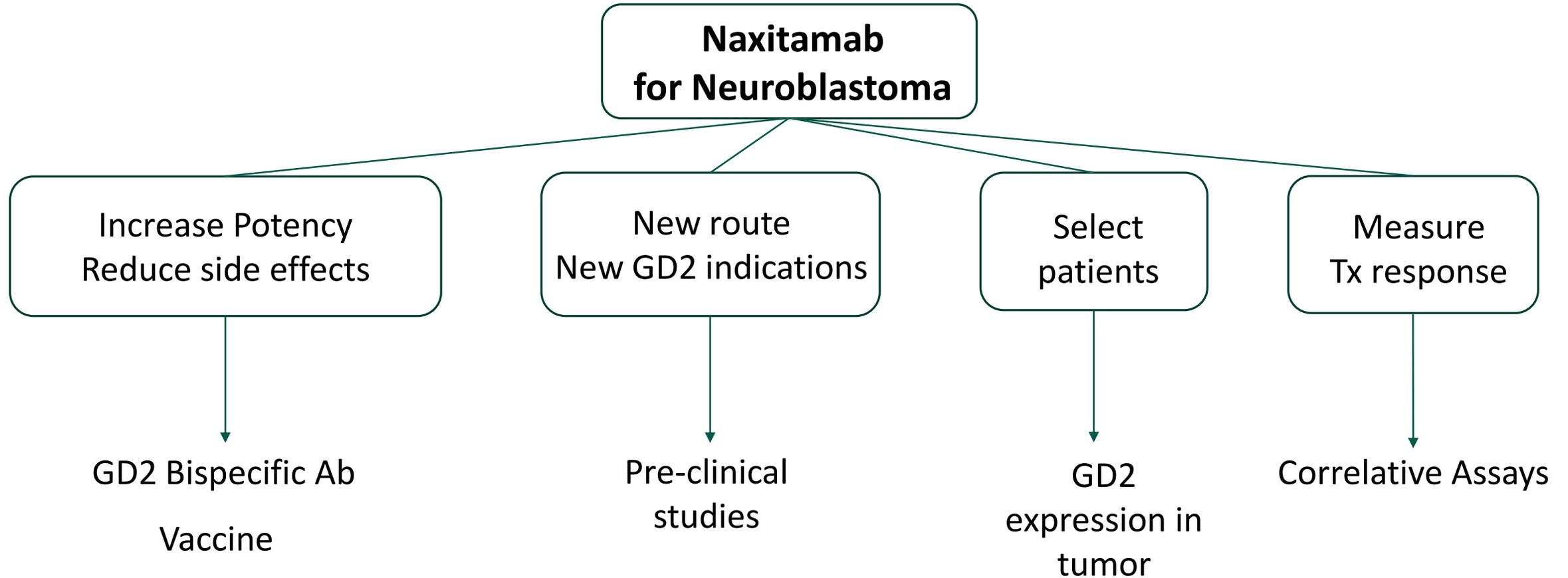
Tumors	No.	8H9 positive	%
Neuroblastoma	90	87	97
Brain tumors			
Gliial tumors			
Glioblastoma multiforme	17	15	88
Mixed glioma	4	3	
Oligodendroglioma	11	4	36
Astrocytoma	8	6	75
Ependymoma	3	2	
Primitive PNET			
Medulloblastoma	2	2	
Mixed			
Neuronogial tumor	2	1	
Other			
Schwannoma	3	3	
Meningioma	2	2	
Neurofibroma	1	1	
Pineoblastoma	1	1	
Melanoma	16	12	75
Ewing's family of tumors	21	21	100
Total	181	160	88

Table 2 8H9 reactivity: Mesenchymal, epithelial and other tumors

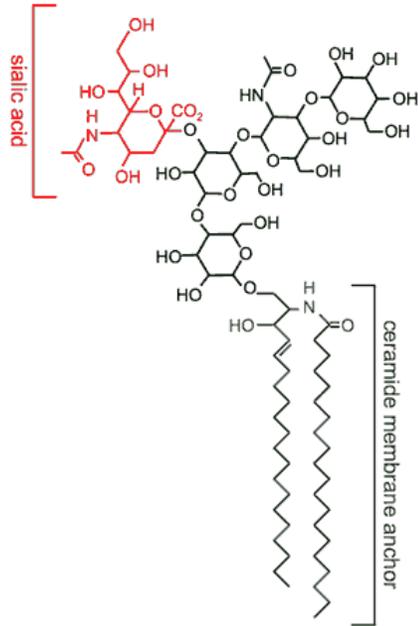
Tumors	No.	8H9 reactive	%
A. Mesenchymal			
Rhabdomyosarcoma	29	28	97
Osteosarcoma	29	28	97
Desmoplastic small round cell tumor	37	35	95
Leiomyosarcoma	4	4	
Synovial sarcoma	3	2	
Malignant fibrous histiocytoma	1	1	
Undifferentiated sarcoma	2	2	
Fibrosarcoma	1	0	
Total	106	100	94
B. Epithelial			
Breast	12	4	33
Bladder	4	1	
Adrenal	3	1	
Stomach	1	1	
Prostate	2	1	
Colon	1	1	
Lung	1	1	
Endometrium	1	1	
Cervix	1	0	
Renal	1	1	
Total	27	12	44
C. Other tumors			
Hepatoblastoma	4	3	
Wilms' tumor	8	7	
Rhabdoid tumor	3	3	
Paraganglioma	1	1	
Total	16	14	88

Modak et al. CANCER RESEARCH 61, 4048–4054, May 15, 2001

GD2 Program



GD2 is highly expressed in neuroblastoma and several other tumors



vaccine

Type of tumor	GM3	GM2	GM1	GD3	GD2	9-O-Ac-GD3	9-O-Ac-GD2	5-N-de-GM3	Neu5Gc-GM3	Fucosyl-GM1	Reference
Melanoma	++	+		++++	+++	+	+	++ ^d	++		Morton and Barth (39), Pukel et al. (40), Ravindranath et al. (41)
Neuroblastoma		++		+	++++	+					Cheung et al. (42), Hettmer et al. (43), Kohla et al. (44)
Glioma				++	++++						Mujoo et al. (35)
SCLC ^a		++	++	++	+++					+++	Brezicka et al. (45), Yoshida et al. (46, 47)
Non-SCLC	+++								+++		van Crujisen et al. (48)
T-ALL ^b		+++		++	+						Okada et al. (49), Yamashiro et al. (50)
ATL ^c				++	++						Okada et al. (49),

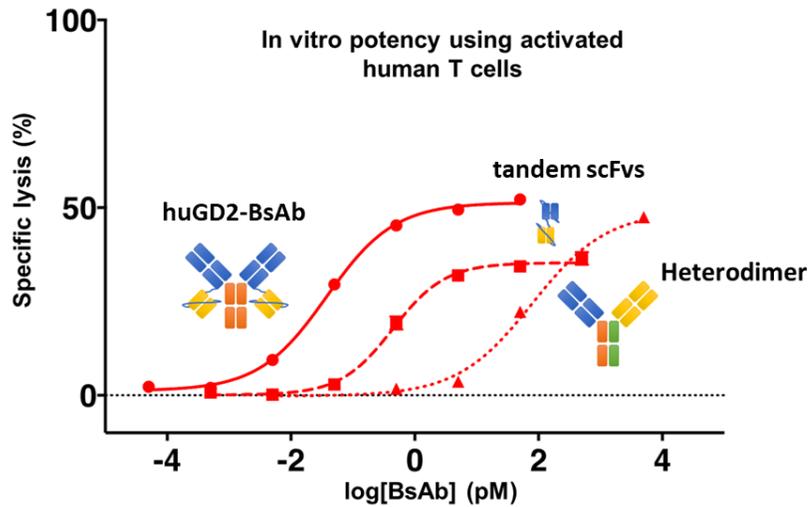
Adapted from Daniotti et al. *Front. Oncol.*, 19 December 2013 | <https://doi.org/10.3389/fonc.2013.00306>

Breast cancer: 37/63 (59%) of patient tumor samples were +/++ for GD2 by IHC, including 27/40 (67%) of Triple Negative Breast Cancer

Orsi et al. *Oncotarget*. 2017 May 9; 8(19): 31592–31600.

GD2 Bispecific Antibody has best in class potency, manufacturability and safety properties

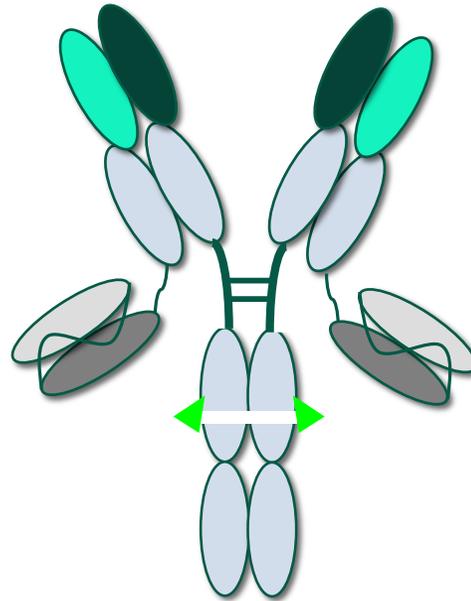
Higher potency than other formats



Adapted from Santich BH et al. Adv Neuroblastoma Res 2018

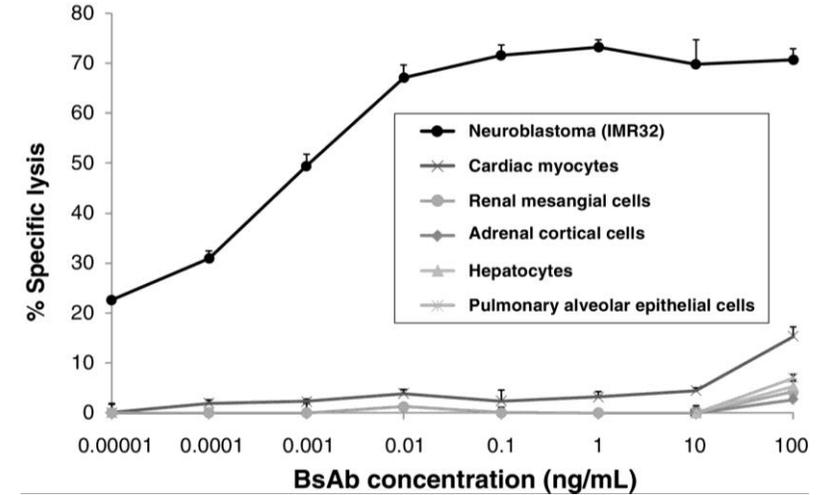
BsAb (BiClone)

200 kDa



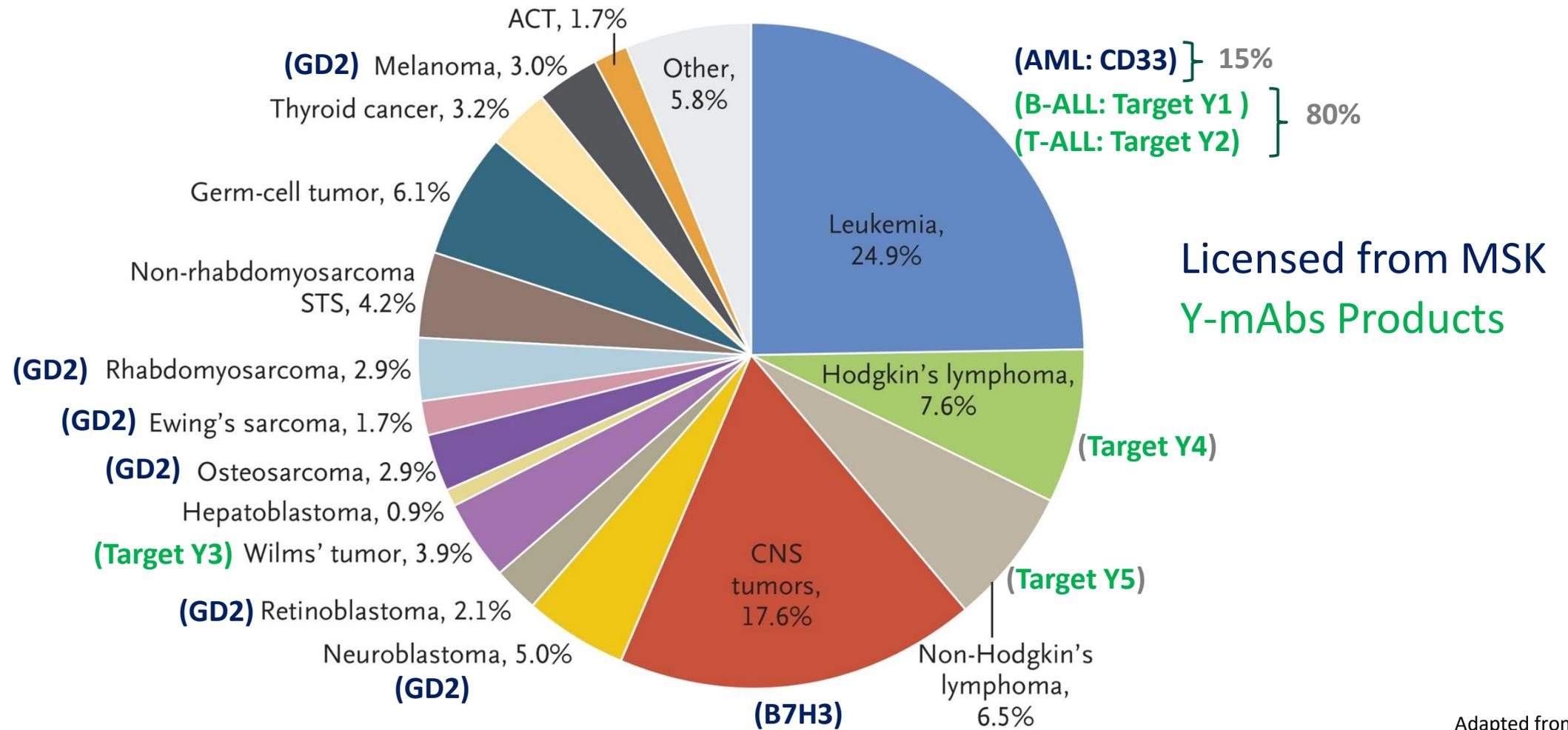
Binds tumor and CD3 to engage T cells, has silent Fc (no ADCC or CMC)

Wide safety margin for normal tissues



Hong Xu et al. Cancer Immunol Res 2015;3:266-277

Covering the landscape of pediatric cancer



Adapted from SEER data
N Engl J Med 2015; 373:2336-2346

The background features a complex, microscopic scene. On the left, a large, textured green structure, possibly a cell or a microorganism, is partially visible. Scattered throughout the scene are various blue and purple rod-like structures, some of which appear to be flagellated or have multiple segments. The overall lighting is dim, with a cool blue and green color palette.

THANK YOU