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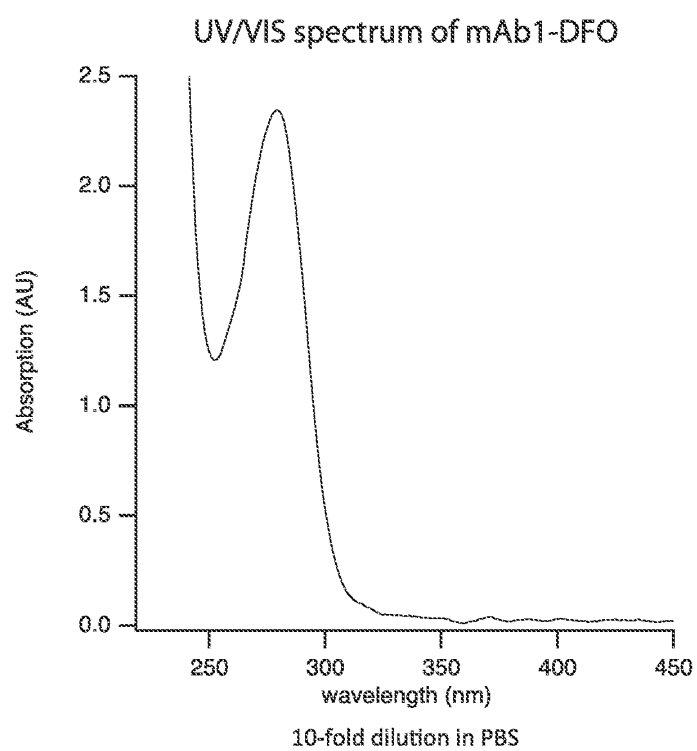


FIGURE 1

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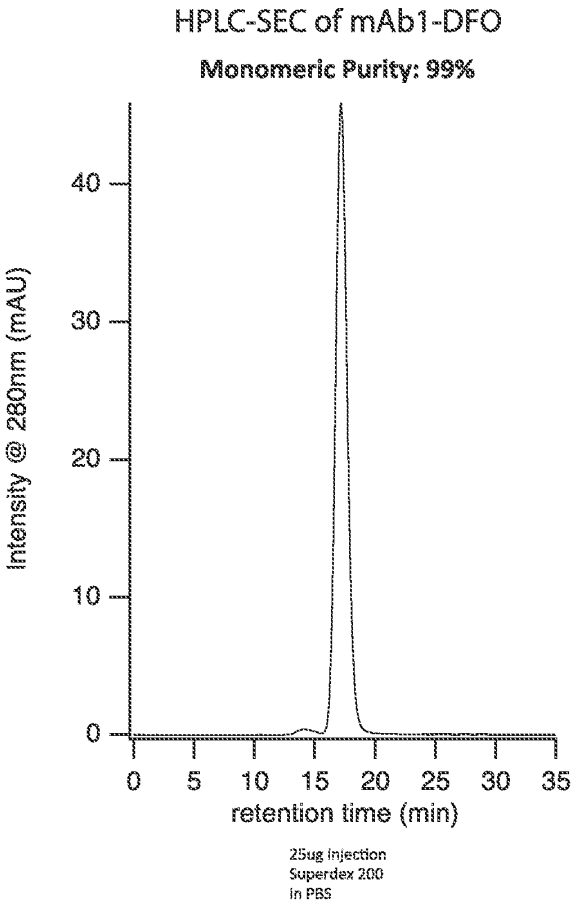


FIGURE 2

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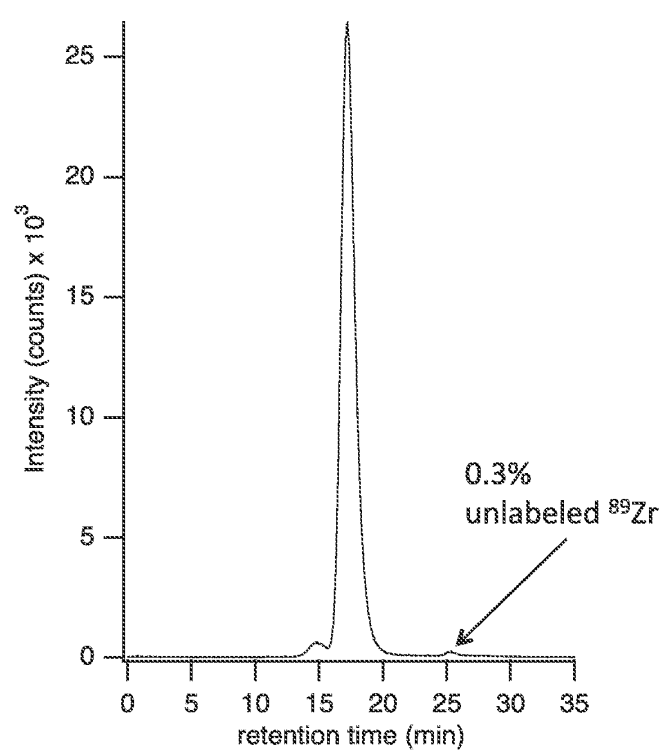
radio-SEC: Isotype-DFO-⁸⁹Zr

FIGURE 3

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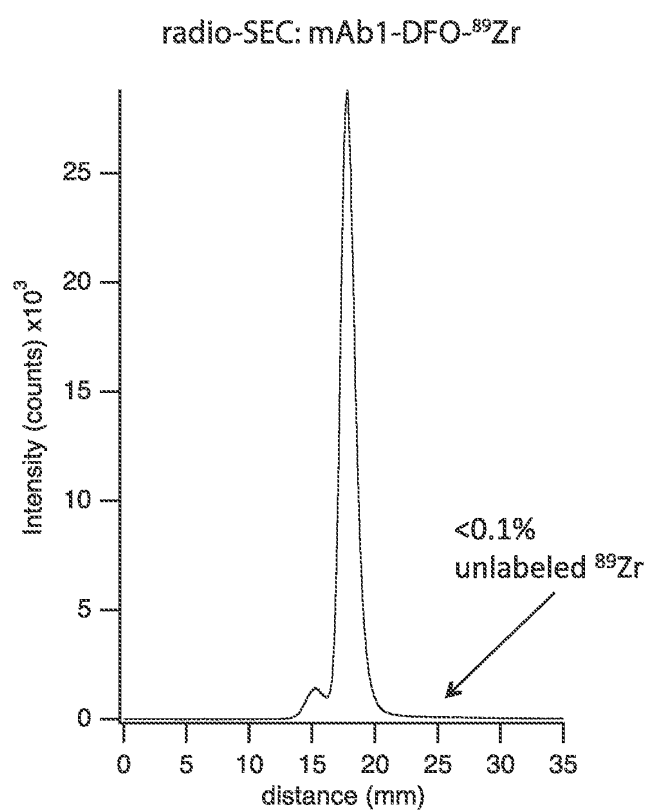


FIGURE 4

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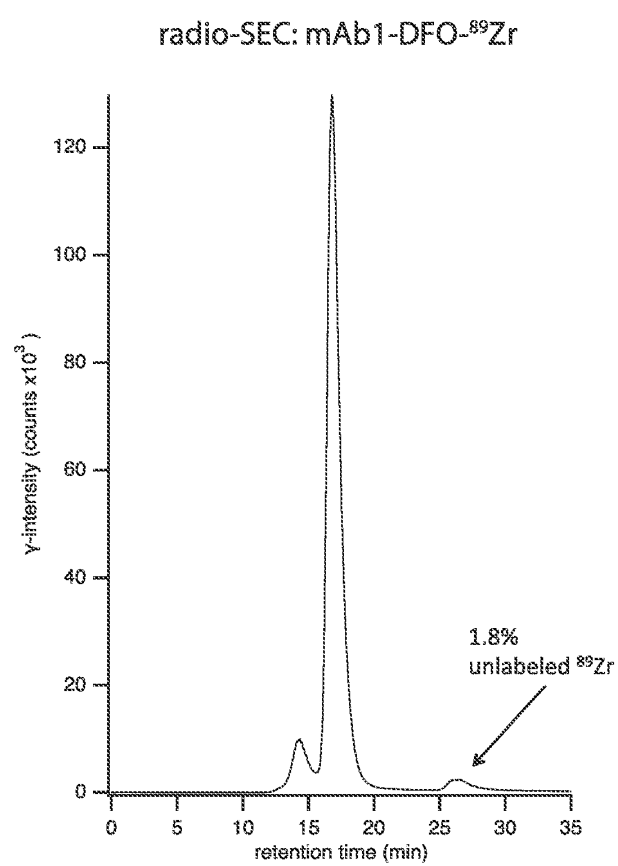


FIGURE 5

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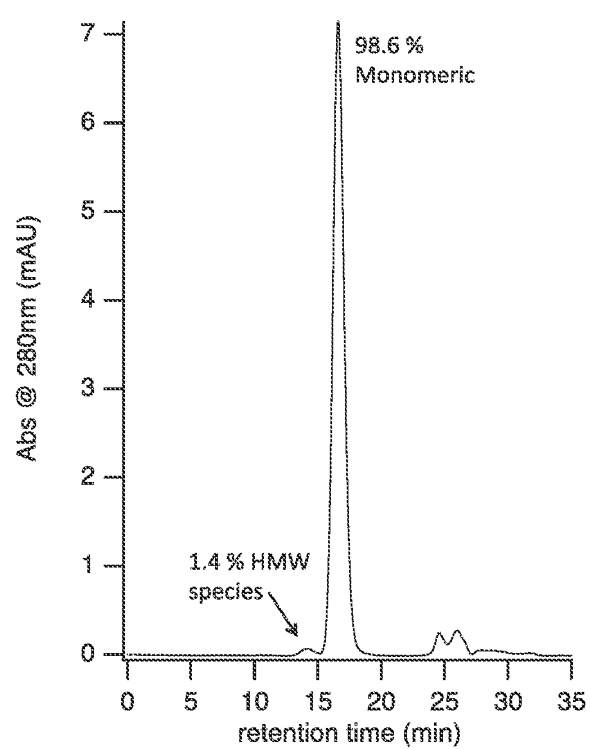
UV-SEC: Isotype-DFO-⁸⁹Zr

FIGURE 6

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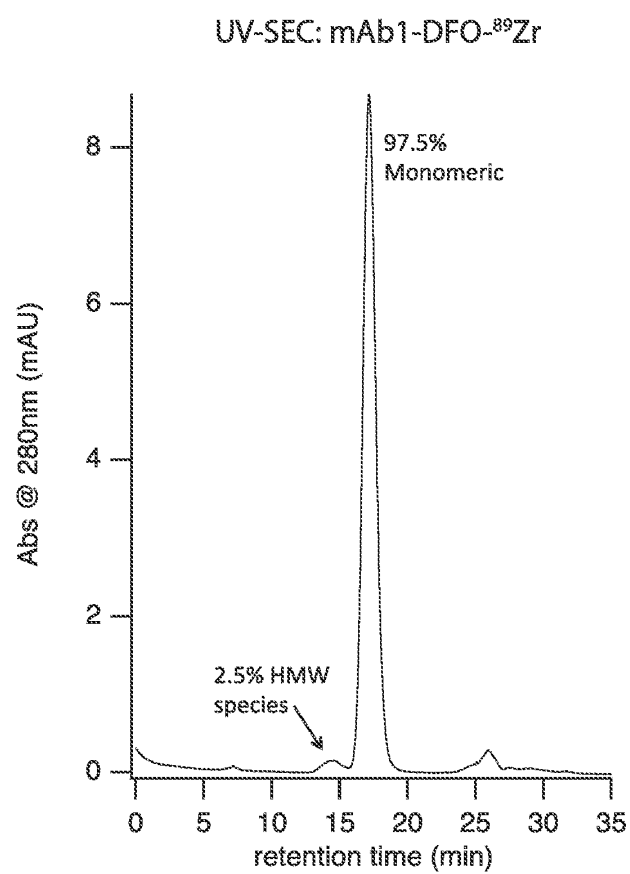


FIGURE 7

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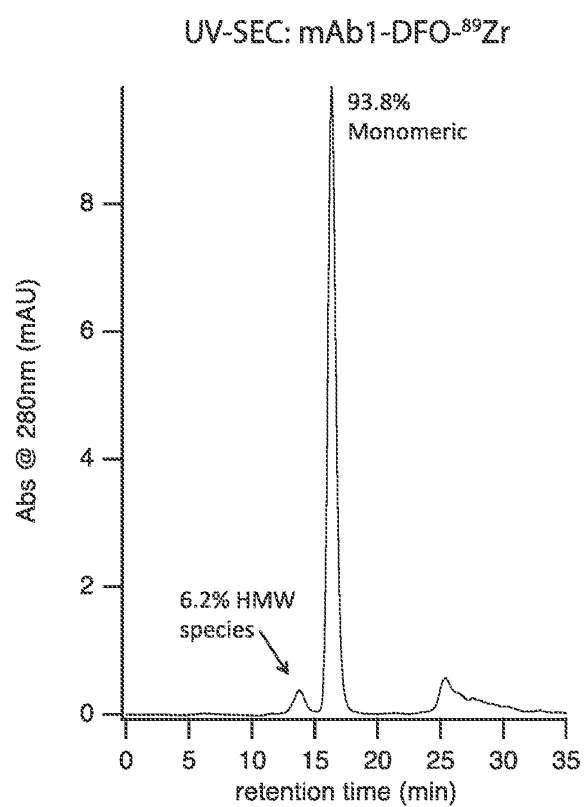


FIGURE 8

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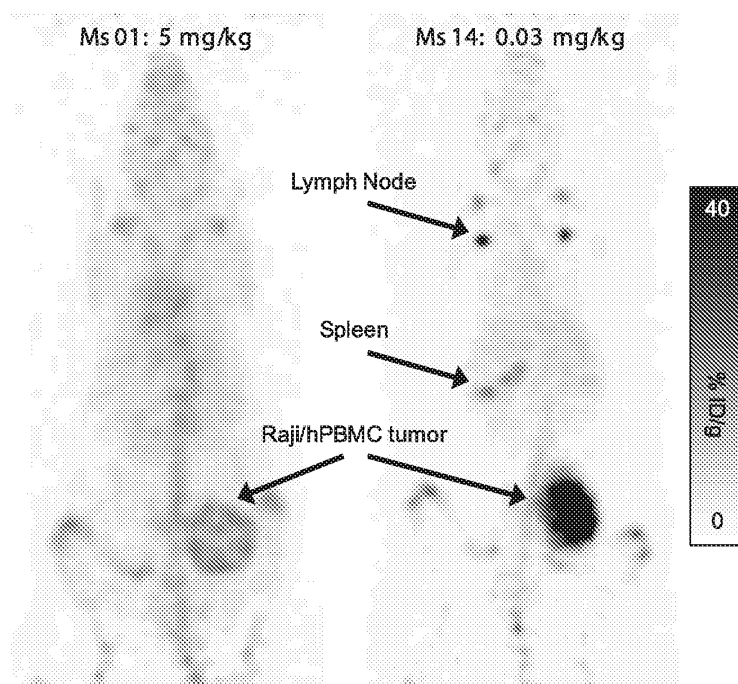


FIGURE 9

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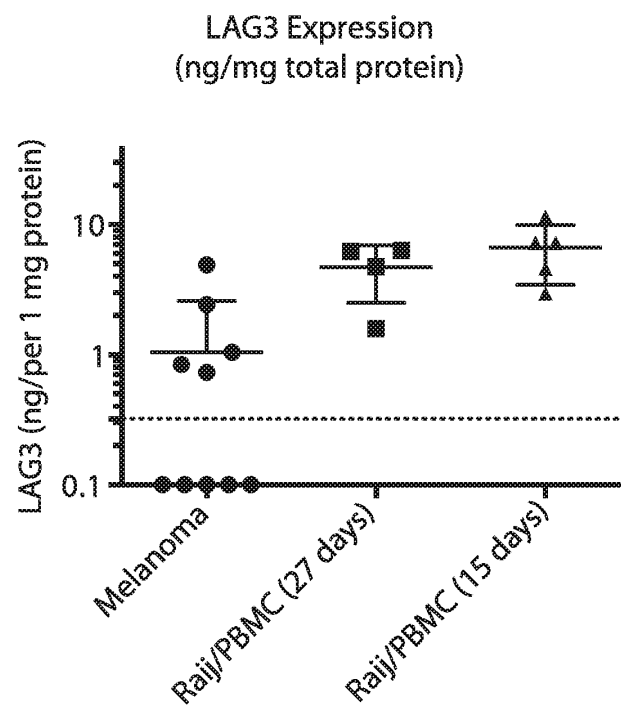
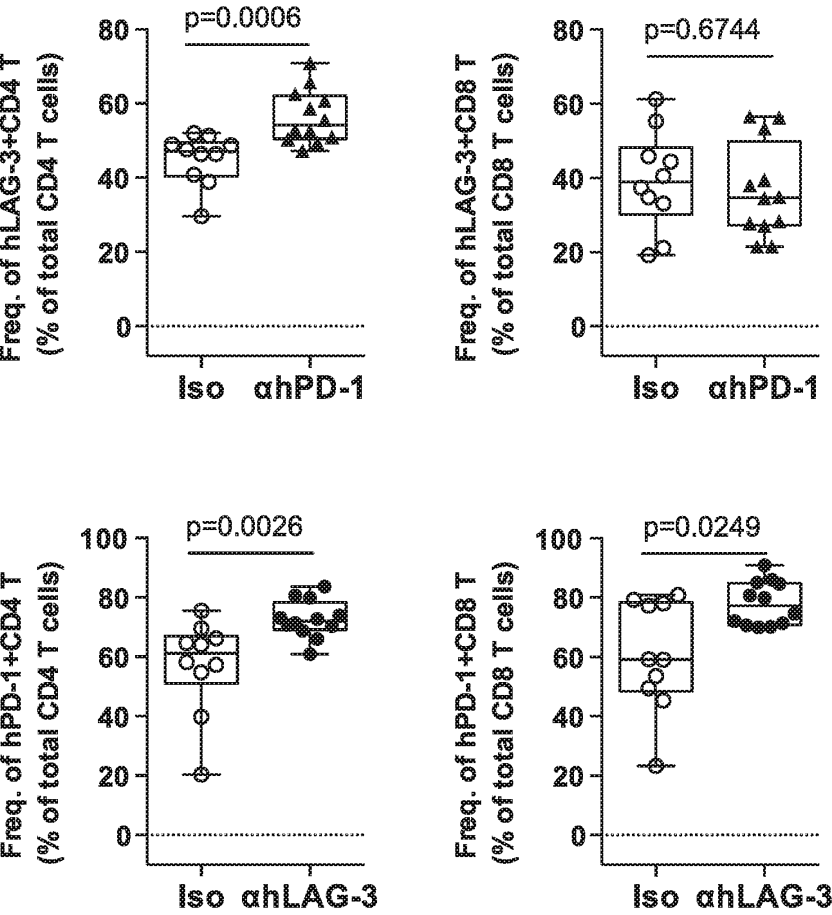


FIGURE 10

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Statistic analysis was performed using Unpaired Mann-Whitney nonparametric T test

FIGURE 11

Sample information of melanoma tissues

Sample ID	Sex	Age	Ethnicity	Sample type	Matrix	Diagnosis	Histological diagnosis	TNM	Stage	Clark's level of invasion	Breslow microstaging, cm	Tumor size, cm	Metastases	Date of surgery	Tumor content %	Weight, g
131815T2(3)	M	45	Caucasian	FF	skin	melanoma	epithelioid cell melanoma	T4bN3M0	IIIC	V	1	1.8x1x1	9/9 lymph nodes	03/16/2015	95	0.9
131719T2(3)	M	58	Caucasian	FF	skin	melanoma	spindle cell melanoma	T4bN0M0	IIC	V	1	6x5x1	no	09/23/2014	100	0.8
139411T2(1)	F	51	Caucasian	FF	skin	melanoma	mixed cell melanoma	T4aN0M0	IIB	IV	1.3	3.5x3.5x1.3	no	02/08/2010	100	0.8
13788T2(4)	F	63	Caucasian	FF	skin	melanoma	spindle cell melanoma	T4bN1bM0	IIIC	III	2.5	7 cm	1/1 lymph nodes	10/23/2009	100	0.7
13765T2(2)	M	56	Caucasian	FF	skin	melanoma	epithelioid cell melanoma	T4bN3M0	IIIC	III	0.7	2.5x1.5	6/6 lymph nodes	08/26/2009	90	0.8
131778T2(5)	M	58	Caucasian	FF	skin	melanoma	epithelioid cell melanoma	T4bN3M0	IIIC	V	30 mm	5x3x3	11/17 lymph nodes	12/15/2014	100	0.7
131291T2(1)	F	33	Caucasian	FF	skin	melanoma	nevroid cell melanoma	T4bN3M0	IIIC	III	15 mm	3x1.5	6/6 lymph nodes	03/15/2012	100	1
131086T6(1)	M	59	Caucasian	FF	skin	melanoma	epithelioid cell melanoma	T4aN0M0	IIB	V	10 mm	2.5 cm	no	05/12/2011	75	0.6
13547T2(1)	M	73	Caucasian	FF	skin and adipose tissue	melanoma	epithelioid cell melanoma	recurrent	recurrent	III	15 mm	N/A	1/18 lymph nodes	05/21/2008	100	0.9
13524T2(7)	F	44	Caucasian	FF	skin	melanoma	epithelioid cell melanoma	T4bN2aM0	IIIC	III	22 mm	2 cm	2/12 lymph nodes	01/24/2008	100	0.65

FIGURE 12