Figure 1

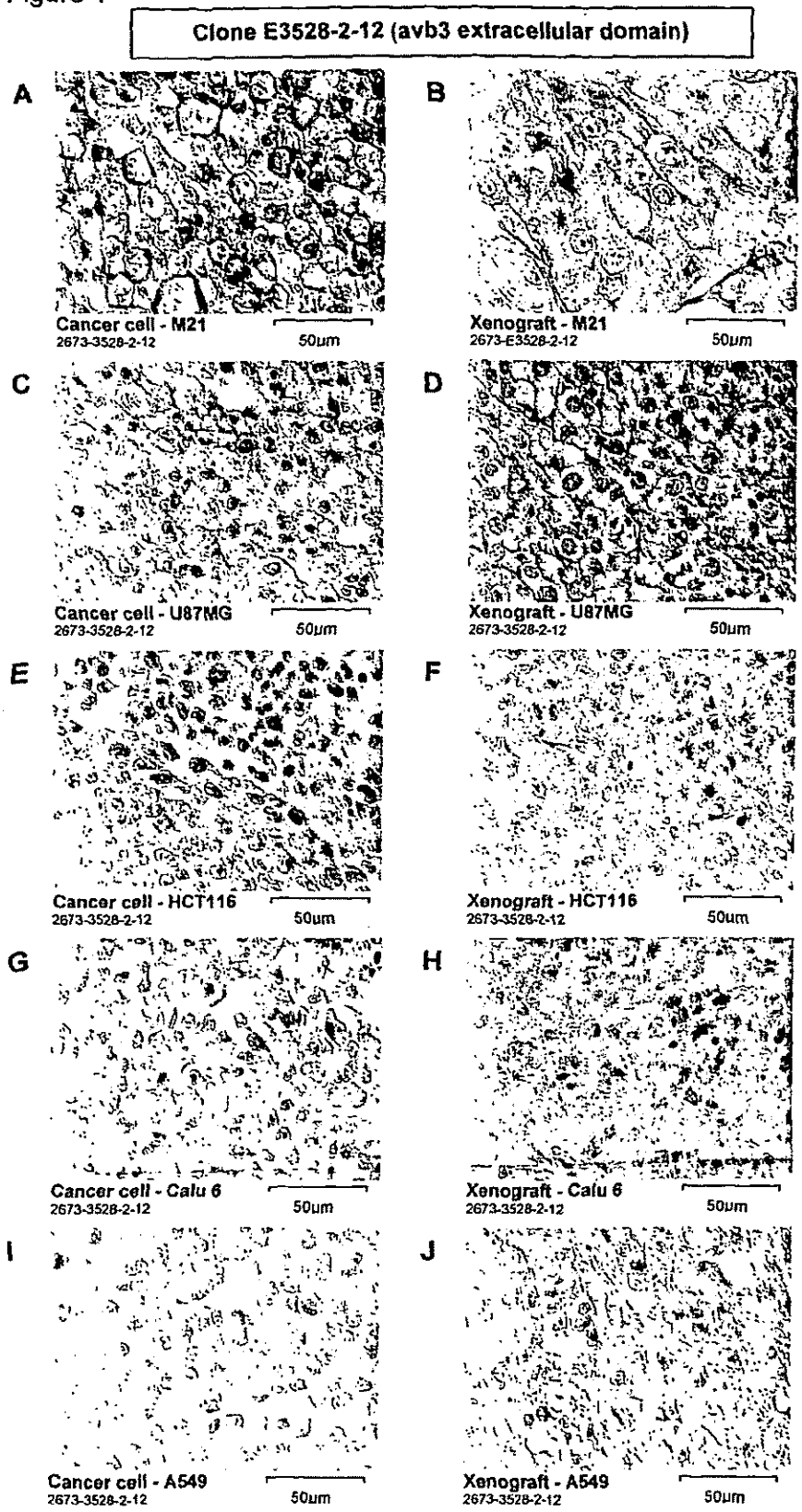
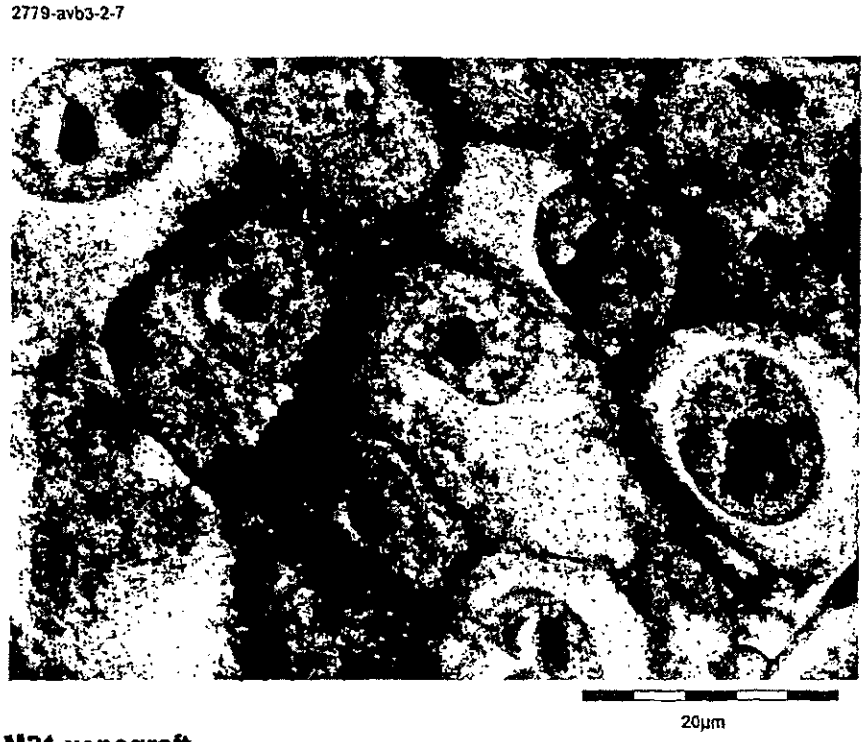
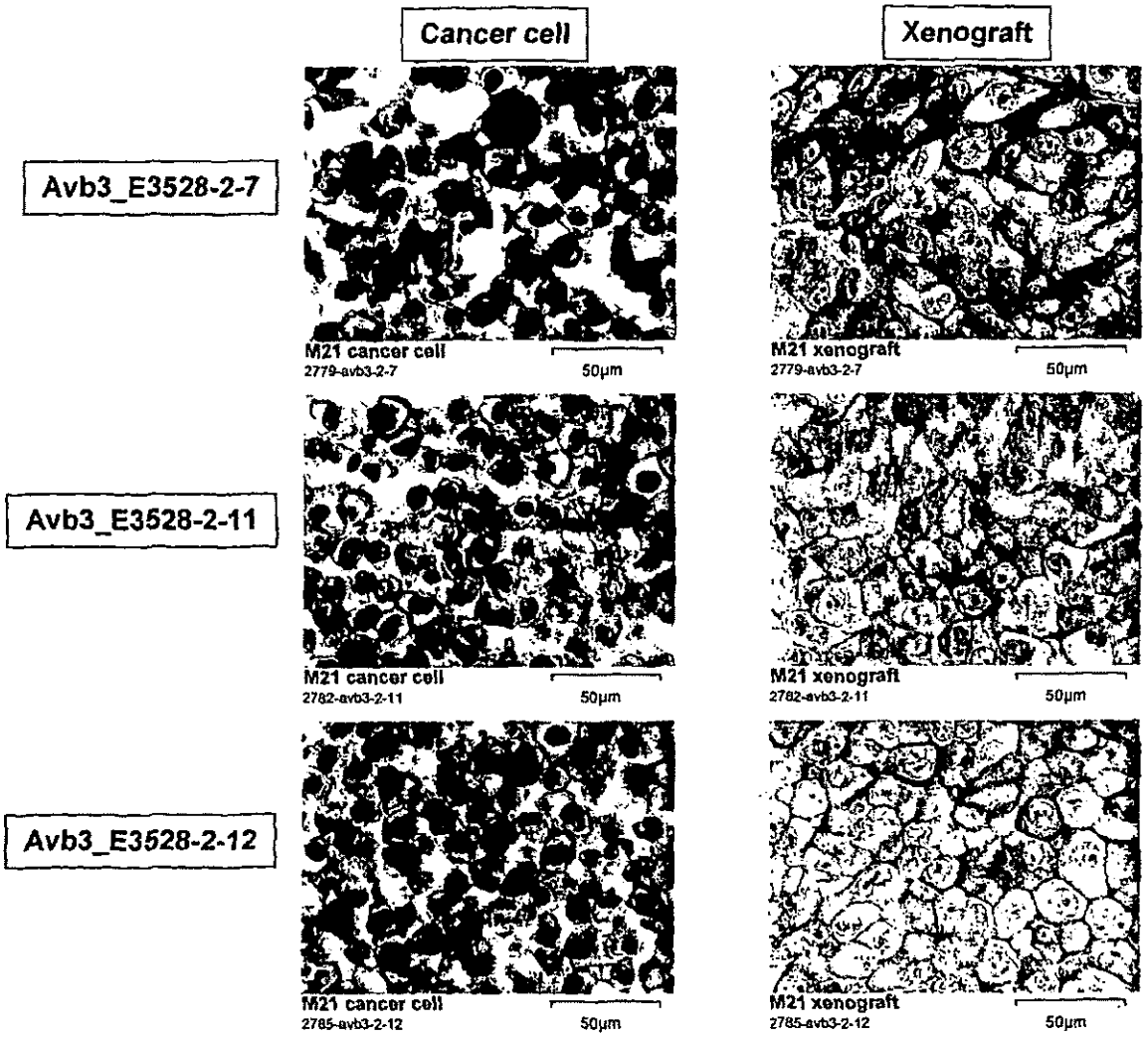

Clone E3528-2-12 (avb3 extracellular domain)
A
Cancer cell - M21
2673-3528-2-12
50µm
B
Xenograft - M21
2673-E3528-2-12
50µm
C
Cancer cell - U87MG
2673-3528-2-12
50µm
D
Xenograft - U87MG
2673-3528-2-12
50µm
E
Cancer cell - HCT116
2673-3528-2-12
50µm
F
Xenograft - HCT116
2673-3528-2-12
50µm
G
Cancer cell - Calu 6
2673-3528-2-12
50µm
H
Xenograft - Calu 6
2673-3528-2-12
50µm
I
Cancer cell - A549
2673-3528-2-12
50µm
J
Xenograft - A549
2673-3528-2-12
50µm

Figure 2



M21 xenograft

Figure 3


Cancer cell
Xenograft
Avb3_E3528-2-7
M21 cancer cell
2779-avb3-2-7
50µm
M21 xenograft
2779-avb3-2-7
50µm
Avb3_E3528-2-11
M21 cancer cell
2782-avb3-2-11
50µm
M21 xenograft
2782-avb3-2-11
50µm
Avb3_E3528-2-12
M21 cancer cell
2785-avb3-2-12
50µm
M21 xenograft
2785-avb3-2-12
50µm

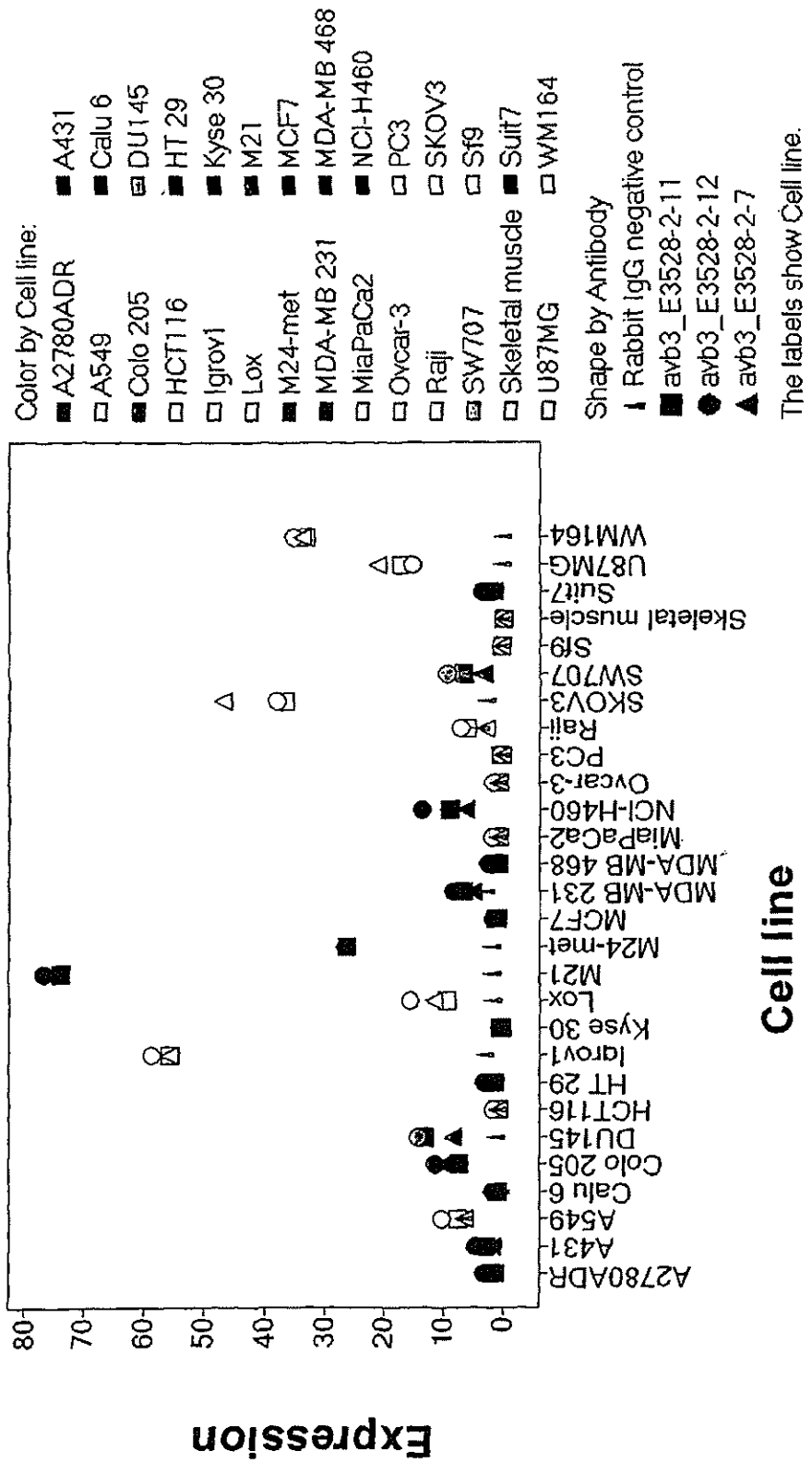

avb3_Antibodies
Color by Cell line:
A2780ADR
A549
Colo 205
HCT116
Igrov1
Lox
M24-met
MDA-MB 231
MiaPaCa2
Oycar-3
Raji
SW707
Skeletal musde
U87MG
A431
Calu 6
DU145
HT 29
Kyse 30
M21
MCF7
MDA-MB 468
NCI-H460
PC3
SKOV3
Sf9
Suit7
WM164
Shape by Antibody
Rabbit IgG negative control
avb3_E3528-2-11
avb3_E3528-2-12
avb3_E3528-2-7
The labels show Cell line.
Expression
Cell line
A2780ADR
A431
A549
Calu 6
Colo 205
DU145
HCT116
HT 29
Igrov1
Kyse 30
Lox
M21
M24-met
MCF7
MDA-MB 231
MDA-MB 468
MiaPaCa2
NCI-H460
Oycar-3
PC3
Raji
SKOV3
SW707
Sf9
Skeletal muscle
Suit7
U87MG
WM164

Figure 4

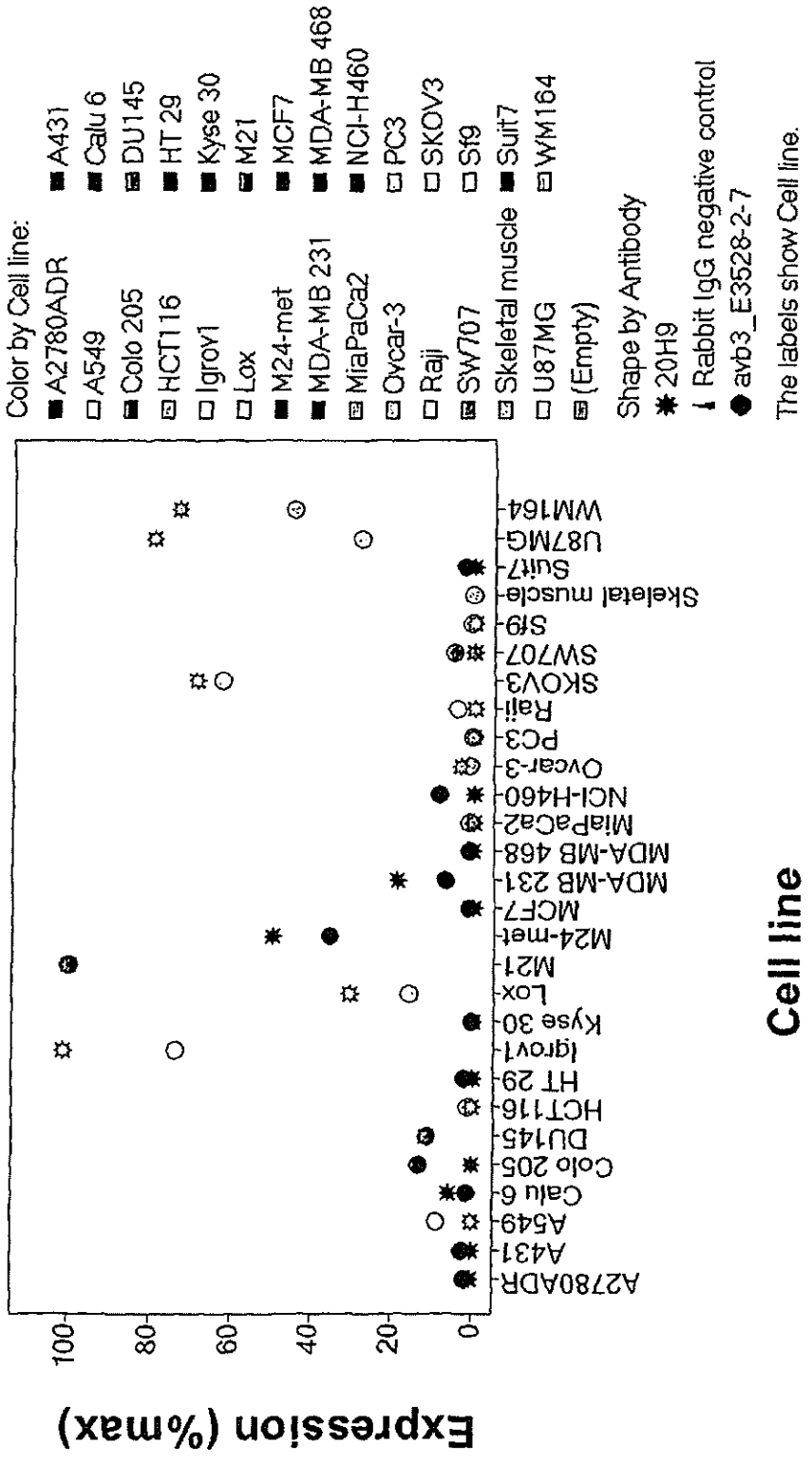

avb3-E3528-2-7
Color by Cell line:
A2780ADR
A549
Colo 205
HCT116
Igrov1
Lox
M24-met
MDA-MB 231
MiaPaCa2
Oycar-3
Raji
SW707
Skeletal muscle
U87MG
(Empty)
A431
Calu 6
DU145
HT 29
Kyse 30
M21
MCF7
MDA-MB 468
NCI-H460
PC3
SKOV3
Sf9
Suit7
WM164
Shape by Antibody
20H9
Rabbit IgG negative control
avb3_E3528-2-7
The labels show Cell line.
Expression (%max)
0
20
40
60
80
100
A2780ADR
A431
A549
Calu 6
Colo 205
DU145
HCT116
HT 29
Igrov1
Kyse 30
Lox
M21
M24-met
MCF7
MDA-MB 231
MDA-MB 468
MiaPaCa2
NCI-H460
Ovcar-3
PC3
Raji
SKOV3
SW707
Sf9
Skeletal muscle
Suit7
U87MG
WM164
Cell line

Figure 5

Figure 6

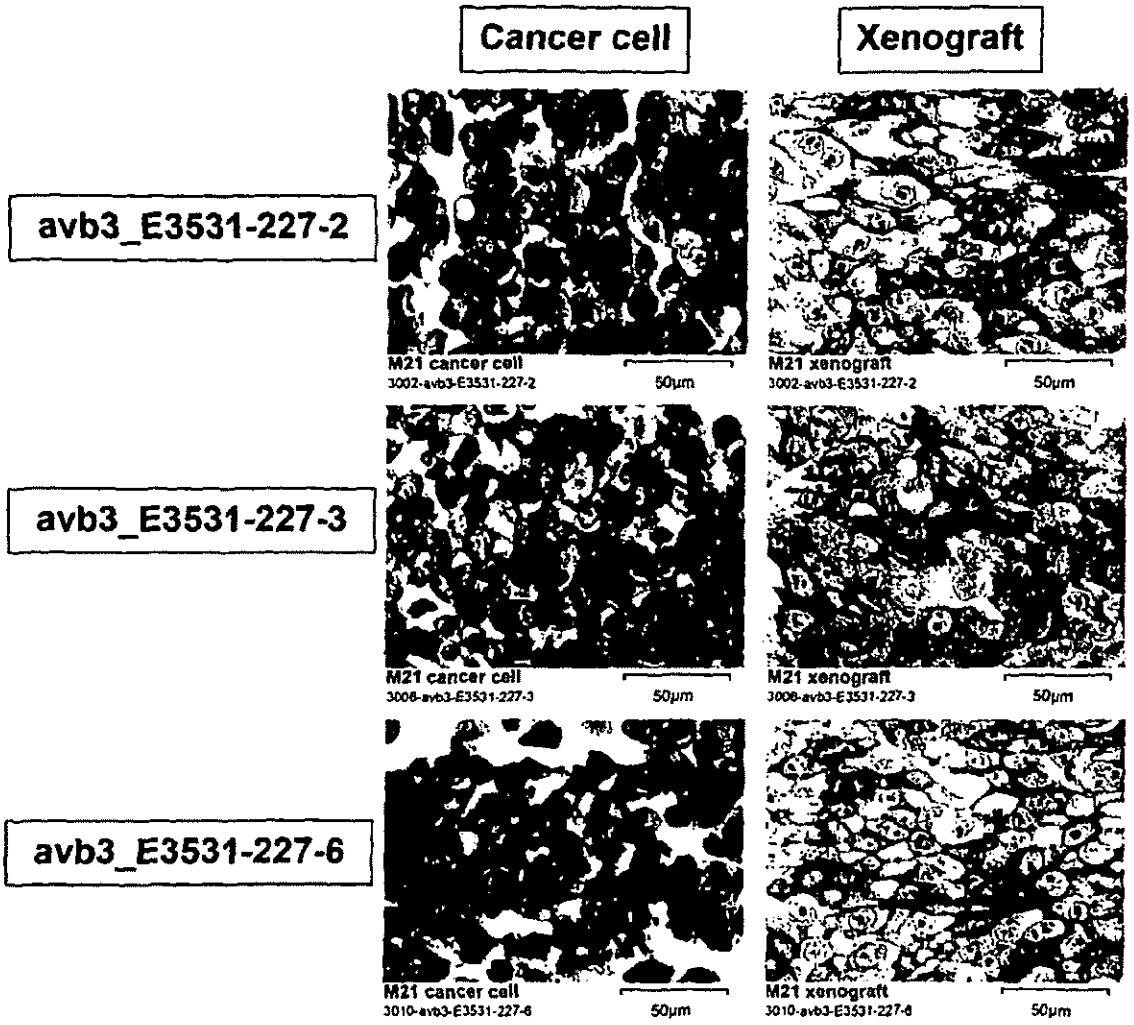
avb3_E3531-227-3



avb3_E3531-229-3



Figure 7


Cancer cell
Xenograft
avb3_E3531-227-2
avb3_E3531-227-3
avb3_E3531-227-6
M21 cancer cell
3002-avb3-E3531-227-2
50µm
M21 xenograft
3002-avb3-E3531-227-2
50µm
M21 cancer cell
3008-avb3-E3531-227-3
50µm
M21 xenograft
3008-avb3-E3531-227-3
50µm
M21 cancer cell
3010-avb3-E3531-227-6
50µm
M21 xenograft
3010-avb3-E3531-227-6
50µm

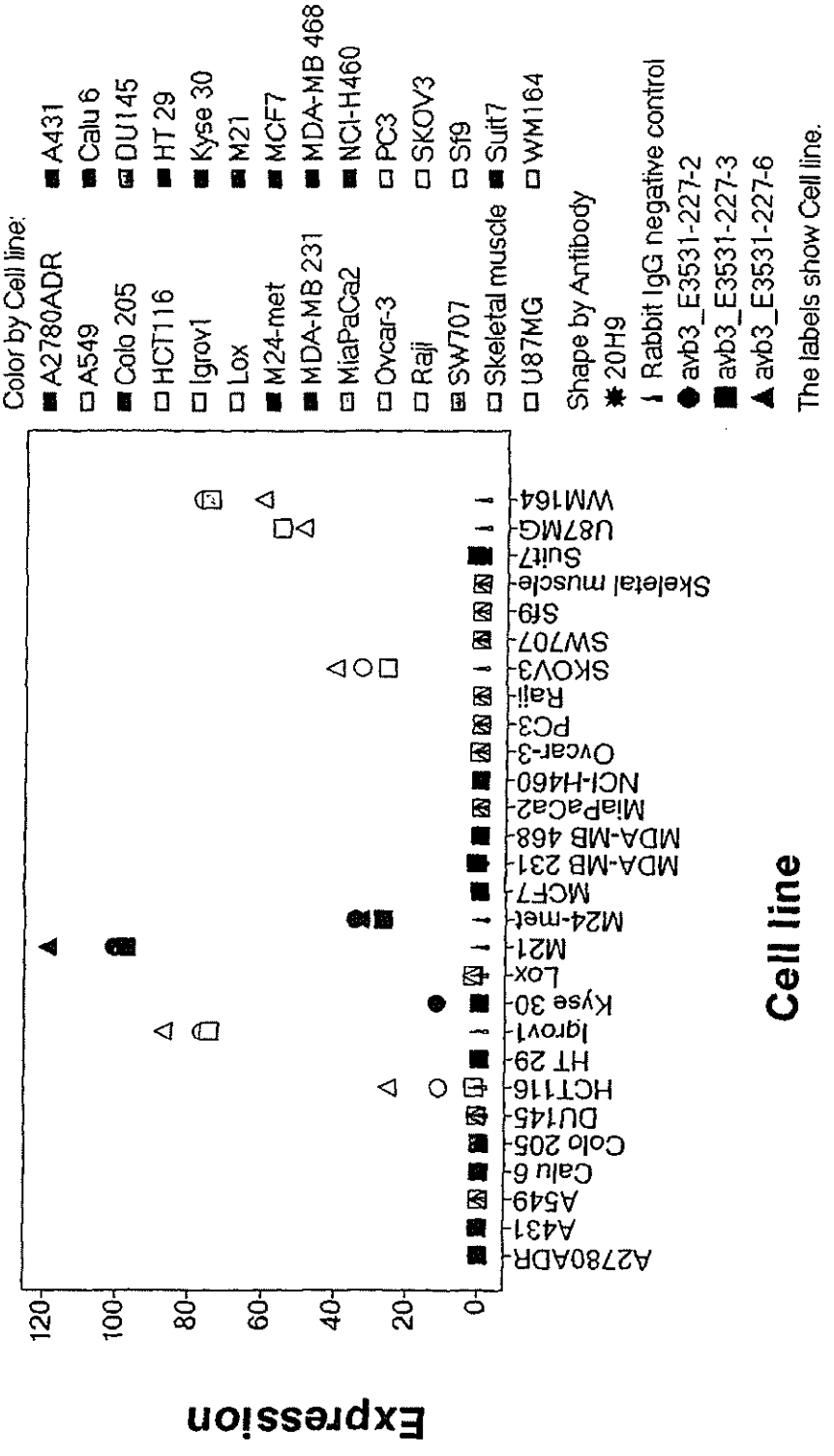

Color by Cell line:
A2780ADR
A549
Colo 205
HCT116
Igrov1
Lox
M24-met
MDA-MB 231
MiaPaCa2
Ovcar-3
Raji
SW707
Skeletal muscle
U87MG
A431
Calu 6
DU145
HT 29
Kyse 30
M21
MCF7
MDA-MB 468
NCI-H460
PC3
SKOV3
Sf9
Suit7
WM164
Shape by Antibody
20H9
Rabbit IgG negative control
avb3_E3531-227-2
avb3_E3531-227-3
avb3_E3531-227-6
The labels show Cell line.
Expression
120
100
80
60
40
20
0
A2780ADR
A431
A549
Calu 6
Colo 205
DU145
HCT116
HT 29
Igrov1
Kyse 30
Lox
M21
M24-met
MCF7
MDA-MB 231
MDA-MB 468
MiaPaCa2
NCI-H460
Ovcar-3
PC3
Raji
SKOV3
SW707
Sf9
Skeletal muscle
Suit7
U87MG
WM164
Cell line

Figure 8

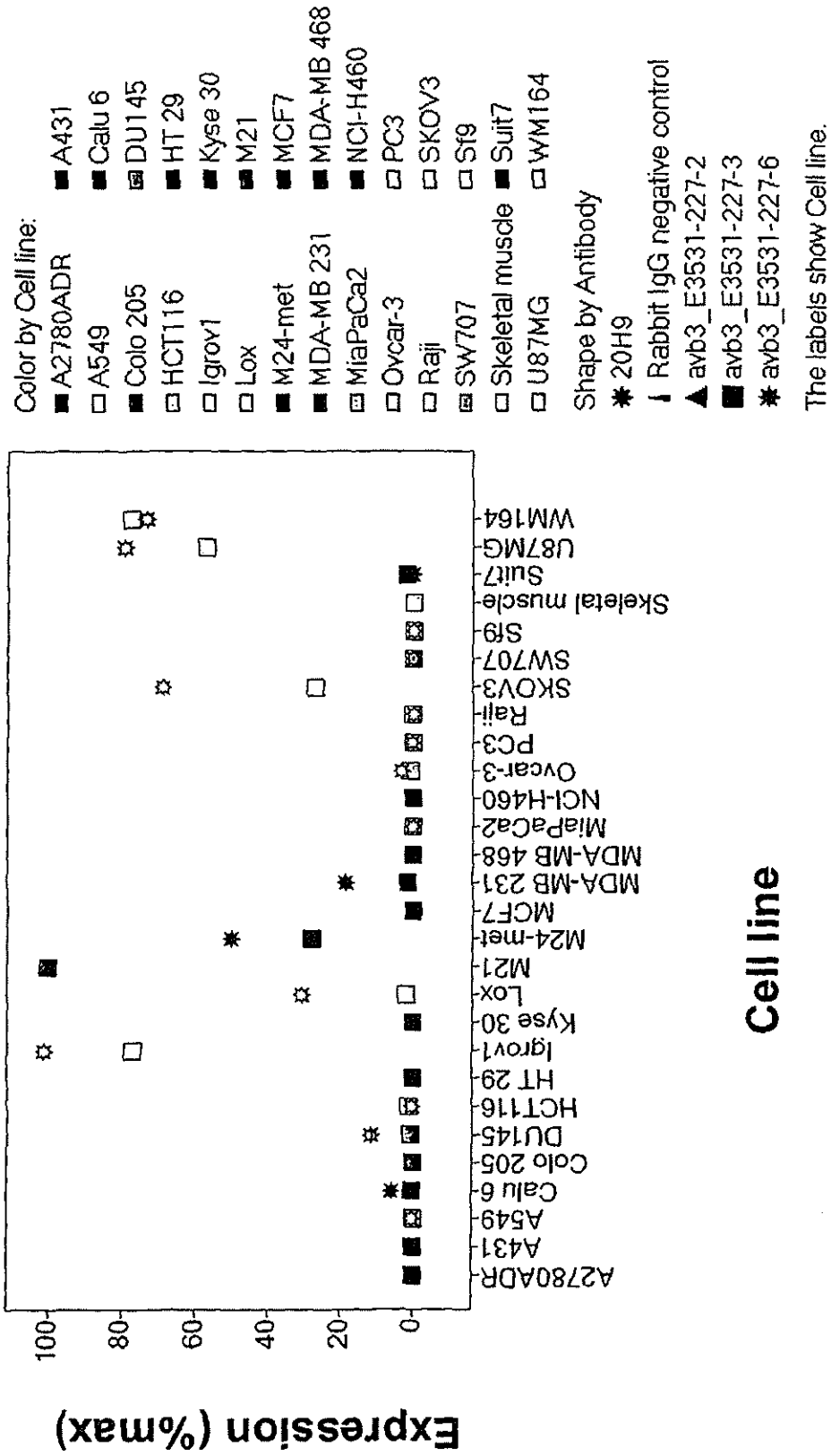

Color by Cell line:
A2780ADR
A549
Colo 205
HCT116
Igrov1
Lox
M24-met
MDA-MB 231
MiaPaCa2
Ovcar-3
Raji
SW707
Sf9
Skeletal muscle
U87MG
A431
Calu 6
DU145
HT 29
Kyse 30
M21
MCF7
MDA-MB 468
NCI-H460
PC3
SKOV3
Sf9
Suit7
WM164
Shape by Antibody
20H9
Rabbit IgG negative control
avb3_E3531-227-2
avb3_E3531-227-3
avb3_E3531-227-6
The labels show Cell line.
Expression (%max)
100
80
60
40
20
0
A2780ADR
A431
A549
Calu 6
Colo 205
DU145
HCT116
HT 29
Igrov1
Kyse 30
Lox
M21
M24-met
MCF7
MDA-MB 231
MDA-MB 468
MiaPaCa2
NCI-H460
Ovcar-3
PC3
Raji
SKOV3
SW707
Sf9
Skeletal muscle
Suit7
U87MG
WM164
Cell line

Figure 9

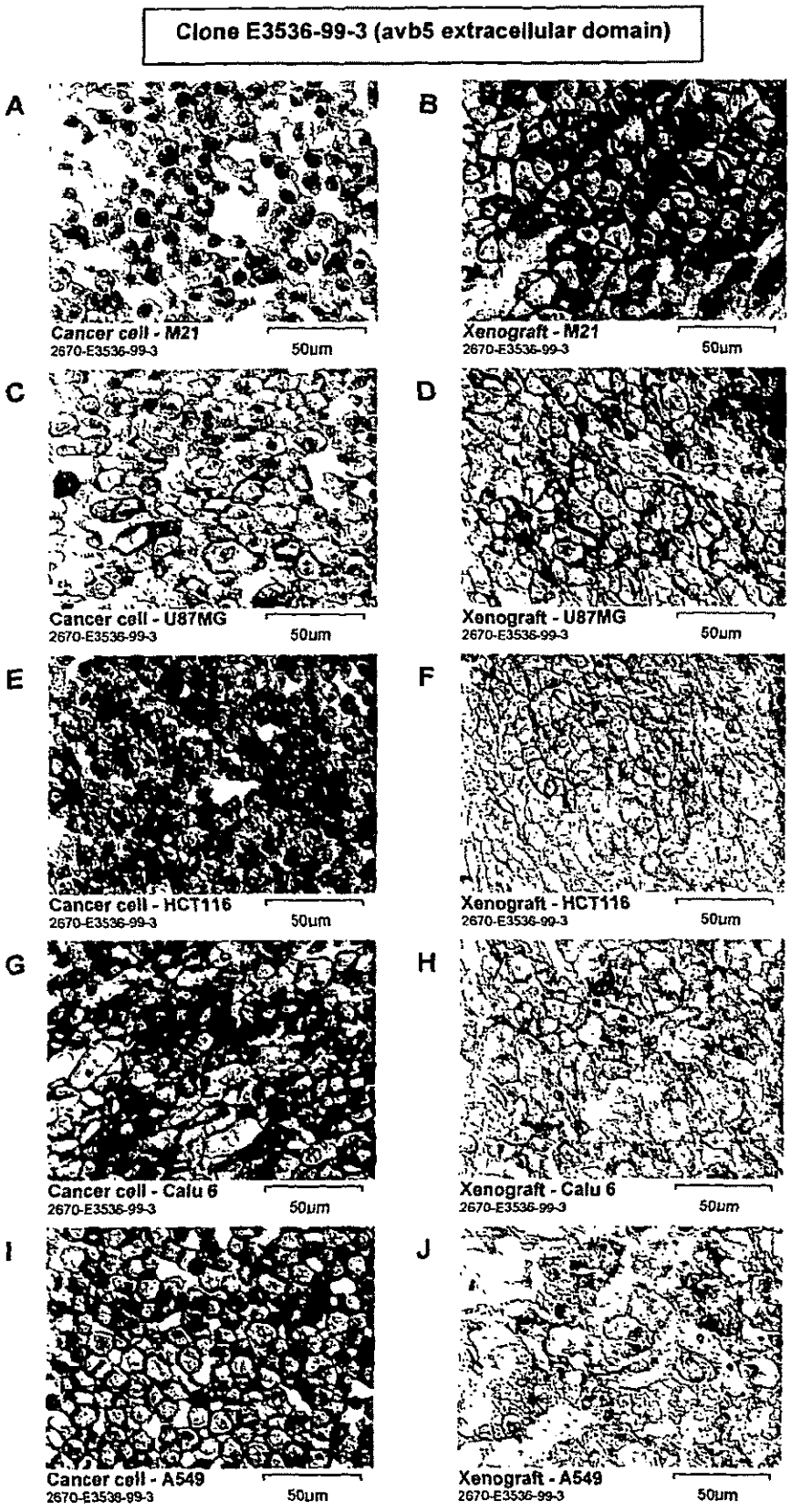

Clone E3536-99-3 (avb5 extracellular domain)
A
Cancer cell - M21
2670-E3536-99-3
50um
B
Xenograft - M21
2670-E3536-99-3
50um
C
Cancer cell - U87MG
2670-E3536-99-3
50um
D
Xenograft - U87MG
2670-E3536-99-3
50um
E
Cancer cell - HCT116
2670-E3536-99-3
50um
F
Xenograft - HCT116
2670-E3536-99-3
50um
G
Cancer cell - Calu 6
2670-E3536-99-3
50um
H
Xenograft - Calu 6
2670-E3536-99-3
50um
I
Cancer cell - A549
2670-E3536-99-3
50um
J
Xenograft - A549
2670-E3536-99-3
50um

Figure 10

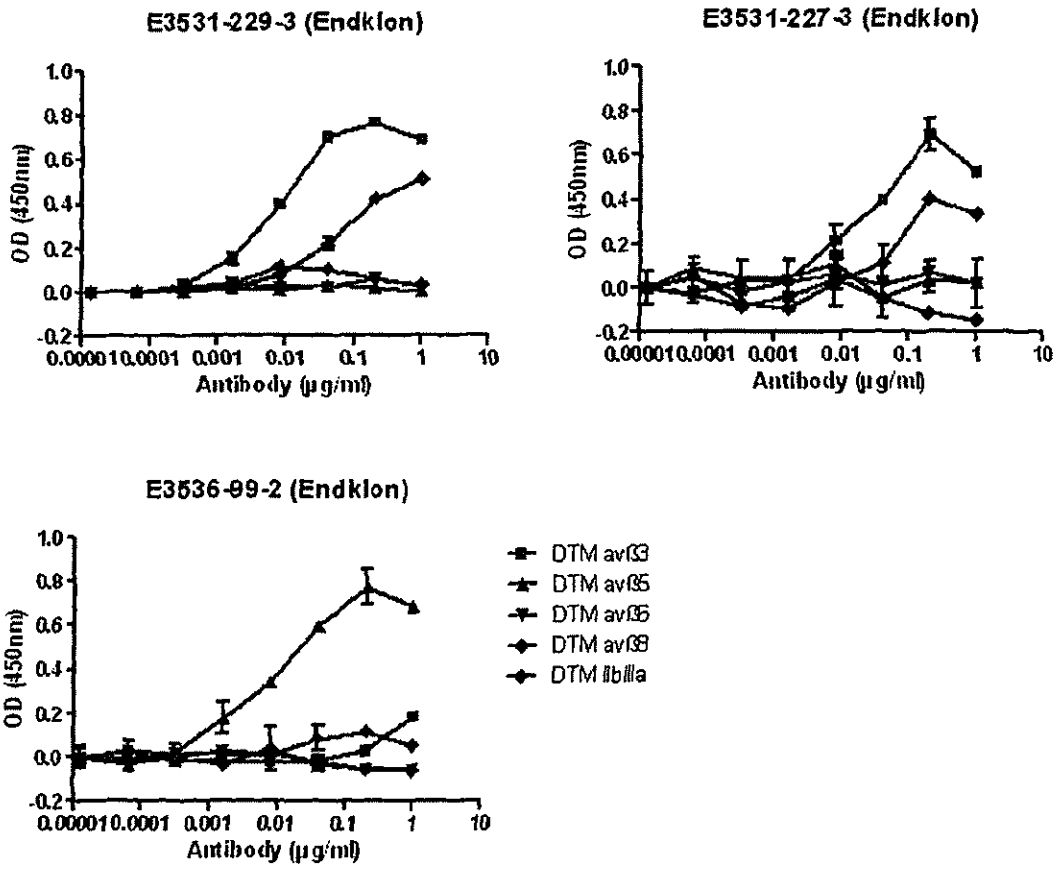
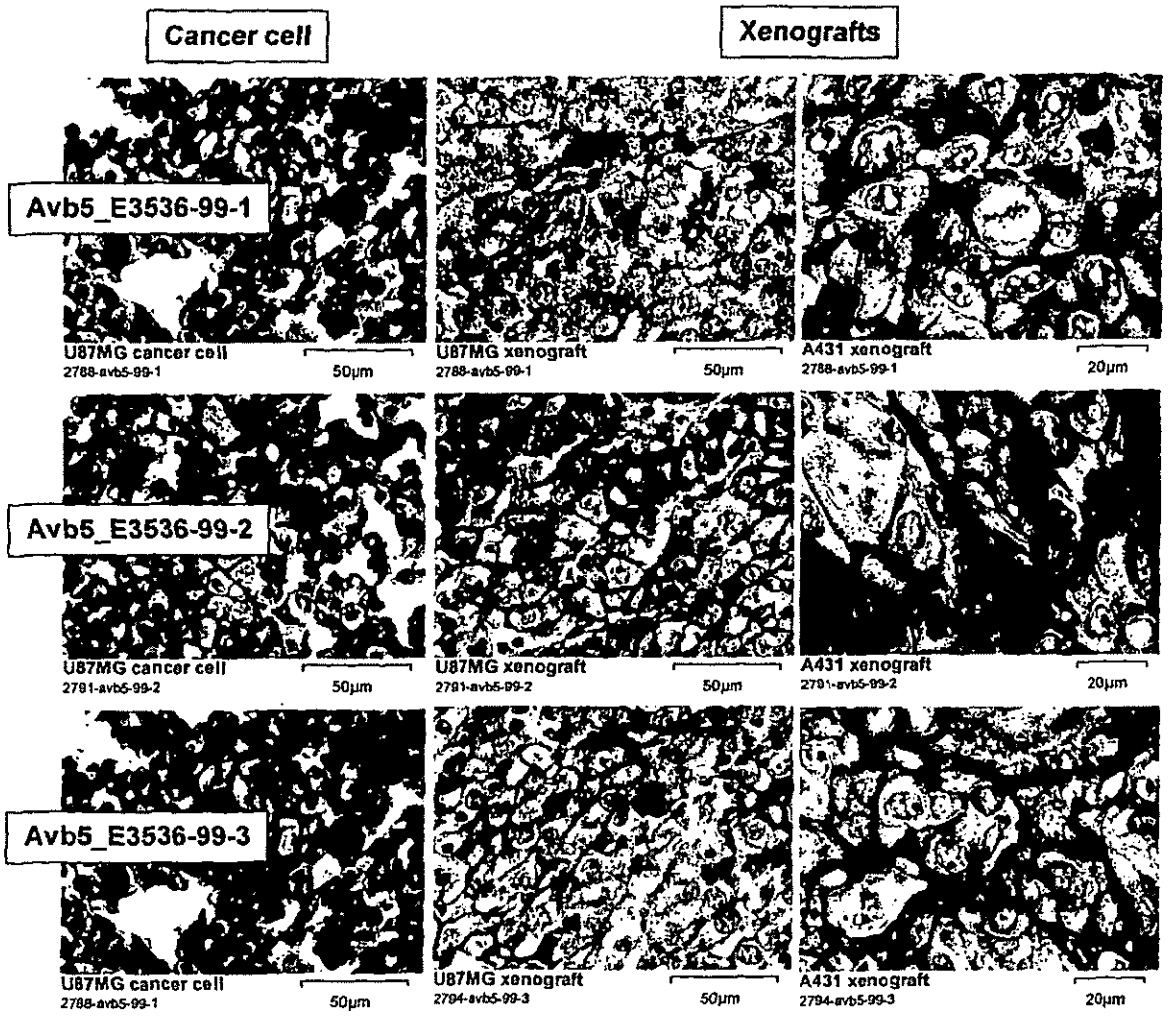

E3531-229-3 (Endklon)
E3531-227-3 (Endklon)
E3536-99-2 (Endklon)
OD (450nm)
Antibody (µg/ml)
0.000010.0001 0.001 0.01 0.1 1 10
-0.2 0.0 0.2 0.4 0.6 0.8 1.0
DTM avß3
DTM avß5
DTM avß6
DTM avß8
DTM IIbIIIa

Figure 11



Figure 12


Cancer cell
Xenografts
Avb5_E3536-99-1
U87MG cancer cell
2788-avb5-99-1
50µm
U87MG xenograft
2788-avb5-99-1
50µm
A431 xenograft
2788-avb5-99-1
20µm
Avb5_E3536-99-2
U87MG cancer cell
2791-avb5-99-2
50µm
U87MG xenograft
2791-avb5-99-2
50µm
A431 xenograft
2791-avb5-99-2
20µm
Avb5_E3536-99-3
U87MG cancer cell
2788-avb5-99-1
50µm
U87MG xenograft
2794-avb5-99-3
50µm
A431 xenograft
2794-avb5-99-3
20µm

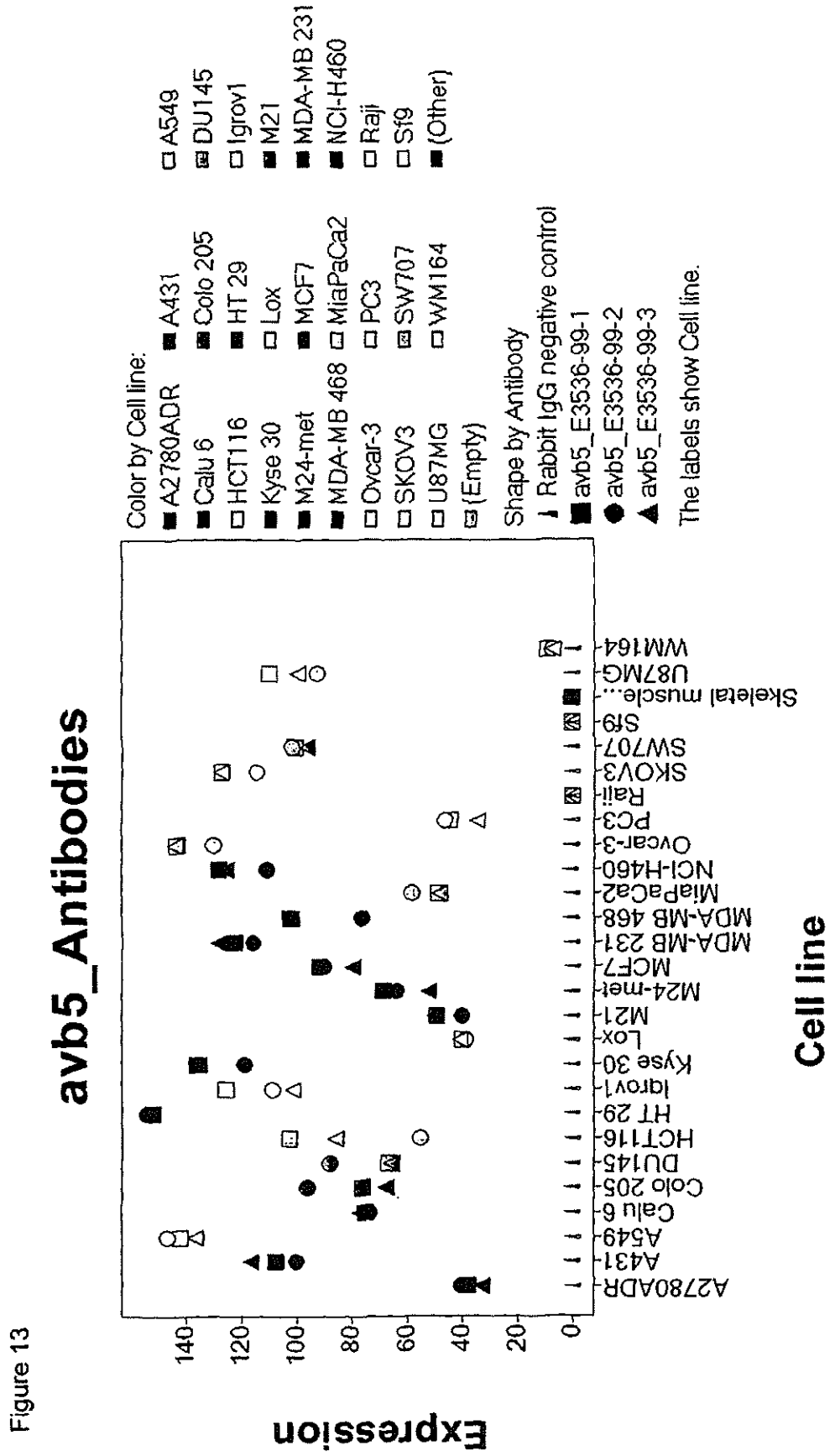

avb5_Antibodies
Expression
Cell line
Color by Cell line:
A2780ADR
A431
A549
Calu 6
Colo 205
DU145
HCT116
HT 29
Igrov1
Kyse 30
Lox
M21
M24-met
MCF7
MDA-MB 231
MDA-MB 468
MiaPaCa2
NCI-H460
Ovcar-3
PC3
Raji
SKOV3
SW707
St9
U87MG
WM164
(Empty)
(Other)
Shape by Antibody
Rabbit IgG negative control
avb5_E3536-99-1
avb5_E3536-99-2
avb5_E3536-99-3
The labels show Cell line.
0
20
40
60
80
100
120
140
A2780ADR
A431
A549
Calu 6
Colo 205
DU145
HCT116
HT 29
Igrov1
Kyse 30
Lox
M21
M24-met
MCF7
MDA-MB 231
MDA-MB 468
MiaPaCa2
NCI-H460
Ovcar-3
PC3
Raji
SKOV3
SW707
St9
Skeletal muscle...
U87MG
WM164

Figure 13

Figure 14

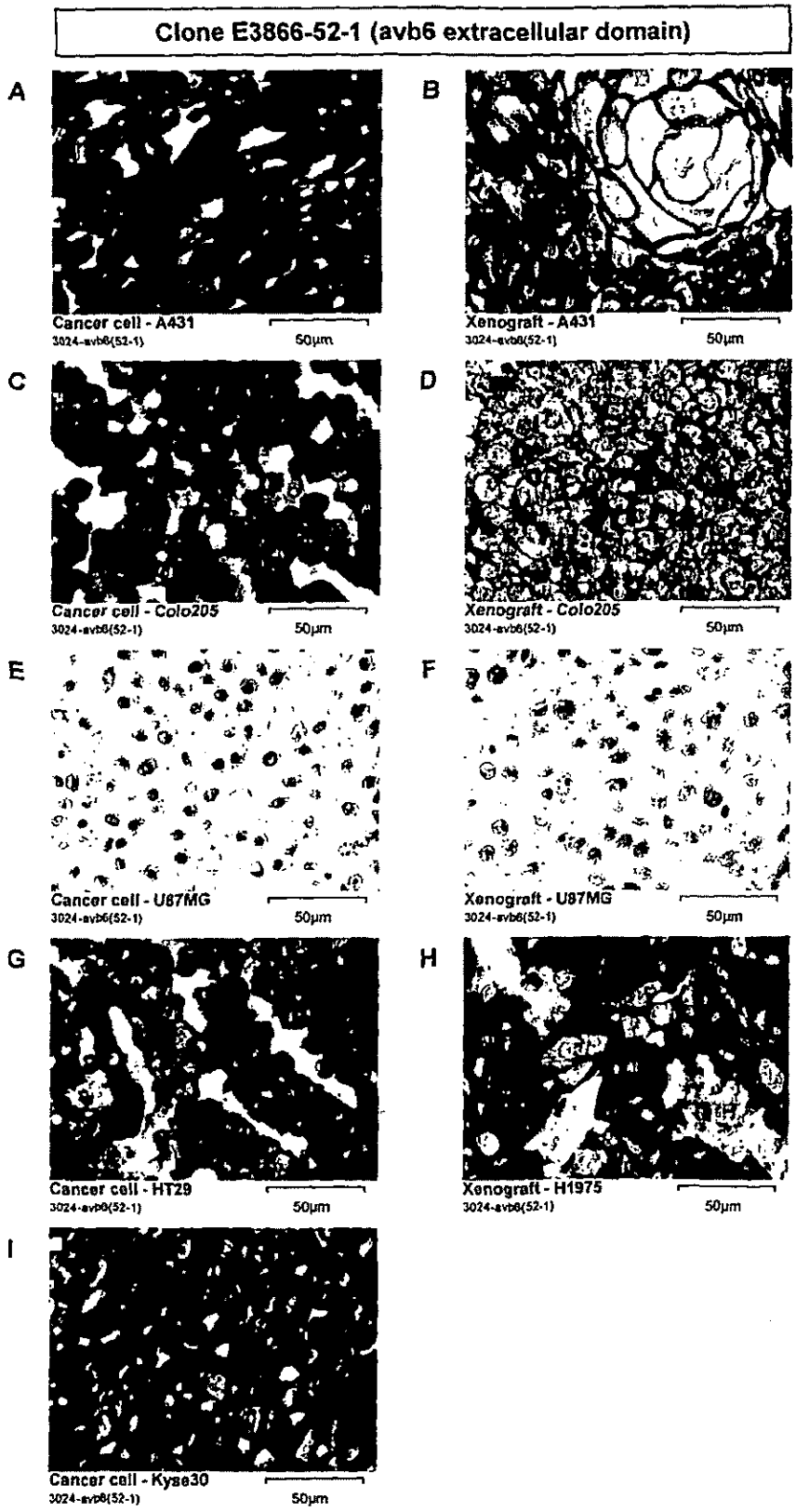
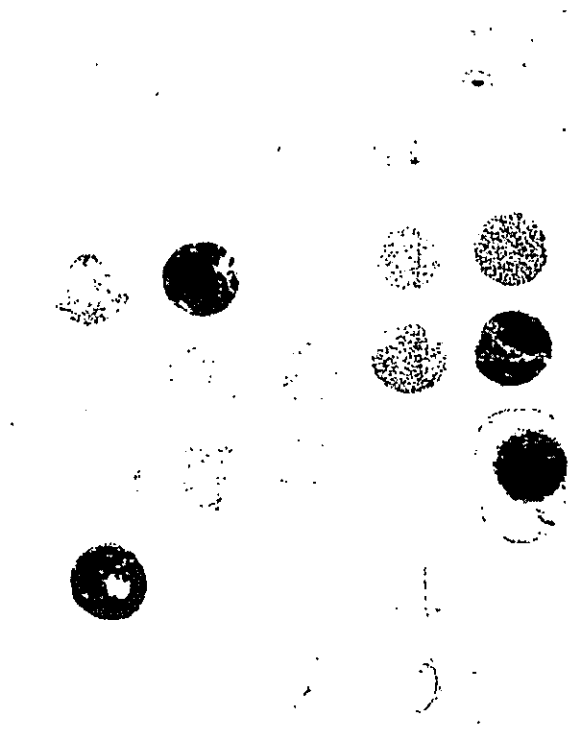

Clone E3866-52-1 (avb6 extracellular domain)
A
Cancer cell - A431
3024-avb6(52-1)
50µm
B
Xenograft - A431
3024-avb6(52-1)
50µm
C
Cancer cell - Colo205
3024-avb6(52-1)
50µm
D
Xenograft - Colo205
3024-avb6(52-1)
50µm
E
Cancer cell - U87MG
3024-avb6(52-1)
50µm
F
Xenograft - U87MG
3024-avb6(52-1)
50µm
G
Cancer cell - HT29
3024-avb6(52-1)
50µm
H
Xenograft - H1975
3024-avb6(52-1)
50µm
I
Cancer cell - Kyse30
3024-avb6(52-1)
50µm

Figure 15

Immunohistochemistry with the antibody	avb6 (E3866-52-1)
Experiment: CAX08	Instrument: MIRAXSCAN
Protocol: 3297	Tissue: Cancer cell lines in vitro (FFPE)



CAX08, overview

CAX08

	1	2	3	4	5
		24 A 431 squams ca oes	18 Suit 7 pancreas ca	12 C 8161 melanoma	6 NHI-H460 LC lung ca
		23 MDA-MB 231 breast ca	17 MiaPaCa2 pancreas ca	11 A2780 ADR ovarian ca	5 Calu 6 lung adeno
	28 Raji Burkitt lymphom	22 MDA-MB468 breast ca	16 M24-met melanoma	10 Ovcar-3 ovarian ca	4 SW707 colon ca
	27 SF 9 Insect cell	21 MCF 7 breast ca	15 M 21 melanoma	9 SKOV 3 ovarian ca	3 HT 29 colon ca
	26 Igrov1 ovarian ca	20 PC 3 prostata 3	14 Lox melanoma	8 U87MG glioblastoma	2 Colo 205 colon ca
	25 Kyse 30 squamous ca	19 DU145 prostata ca	13 WM 164 melanoma	7 A 549 lung ca	1 HCT 116 colon ca
			M*	M*	

M* = Dog heart mucle for purposes of orientation

Array map, M: dog heart muscle

SUBSTITUTE SHEET (RULE 26)

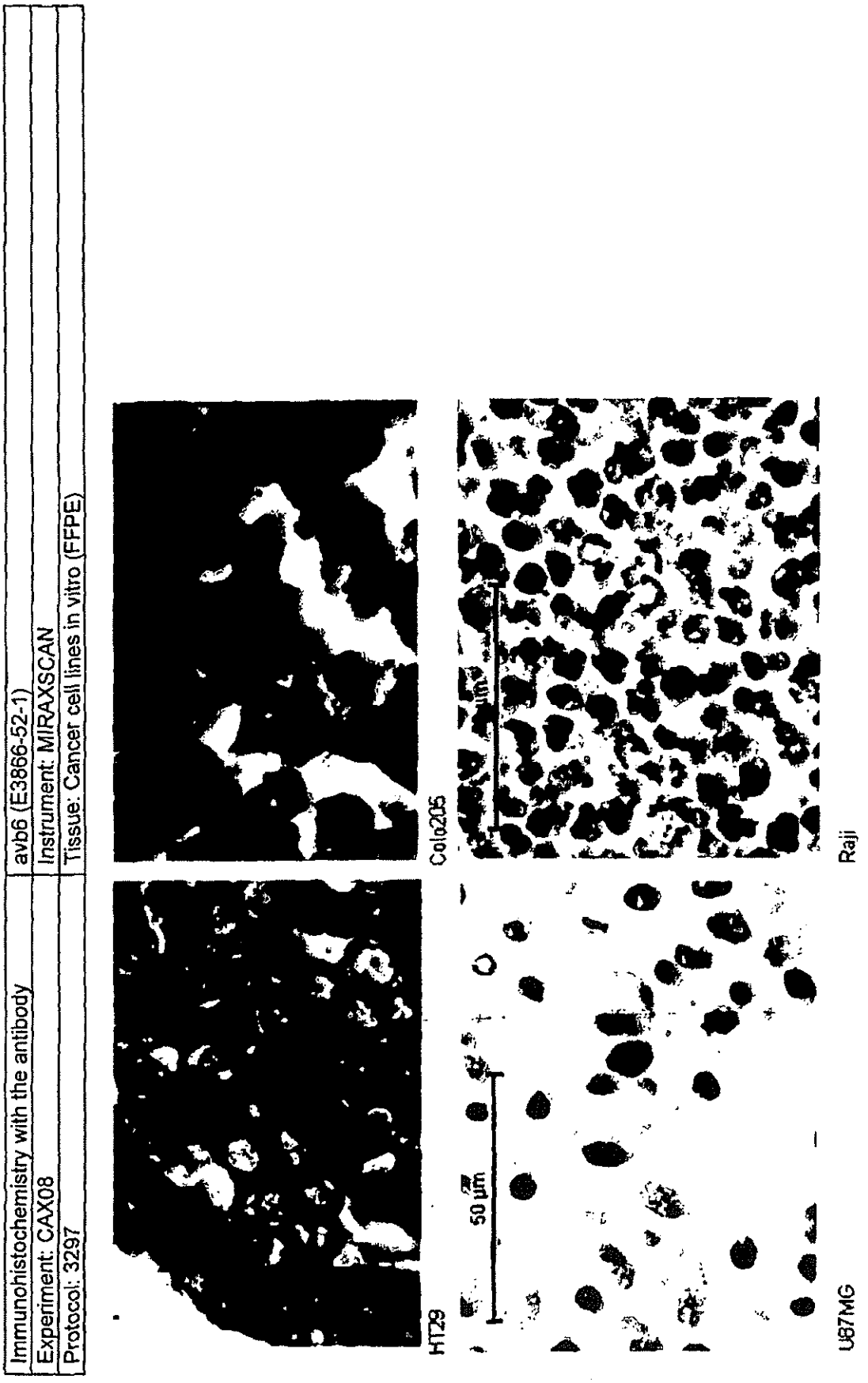

Immunohistochemistry with the antibody
avb6 (E3866-52-1)
Experiment: CAX08
Instrument: MIRAXSCAN
Protocol: 3297
Tissue: Cancer cell lines in vitro (FFPE)
HT29
Colo205
50 µm
Raji
U87MG

Figure 16

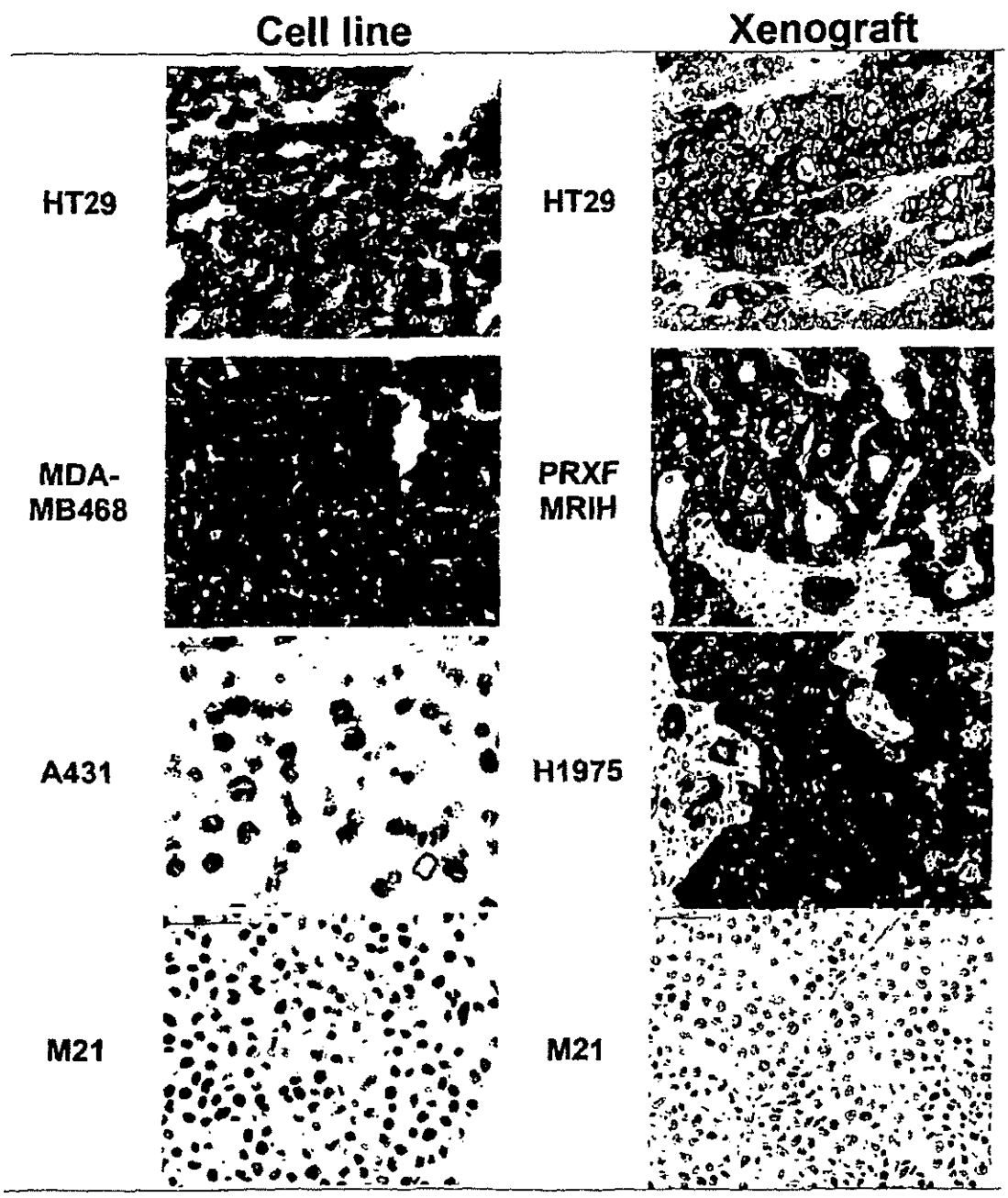

Cell line
Xenograft
HT29
HT29
MDA-MB468
PRXF MRIH
A431
H1975
M21
M21

Figure 17

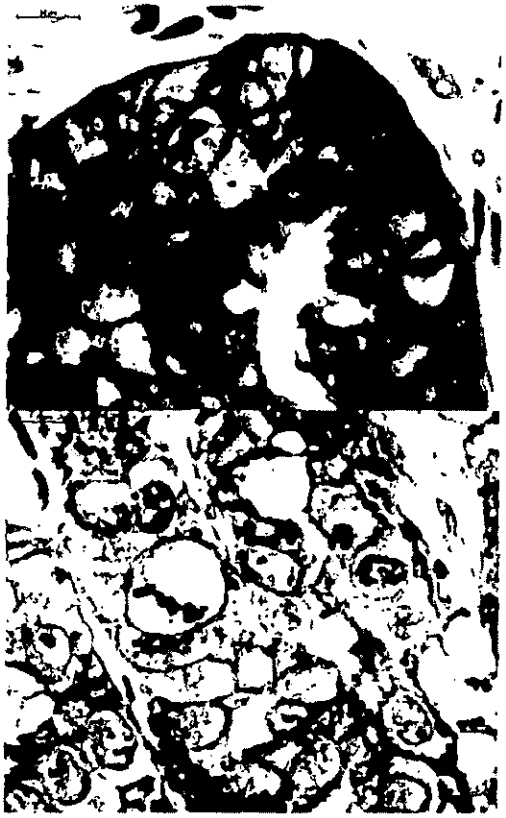


Figure 18

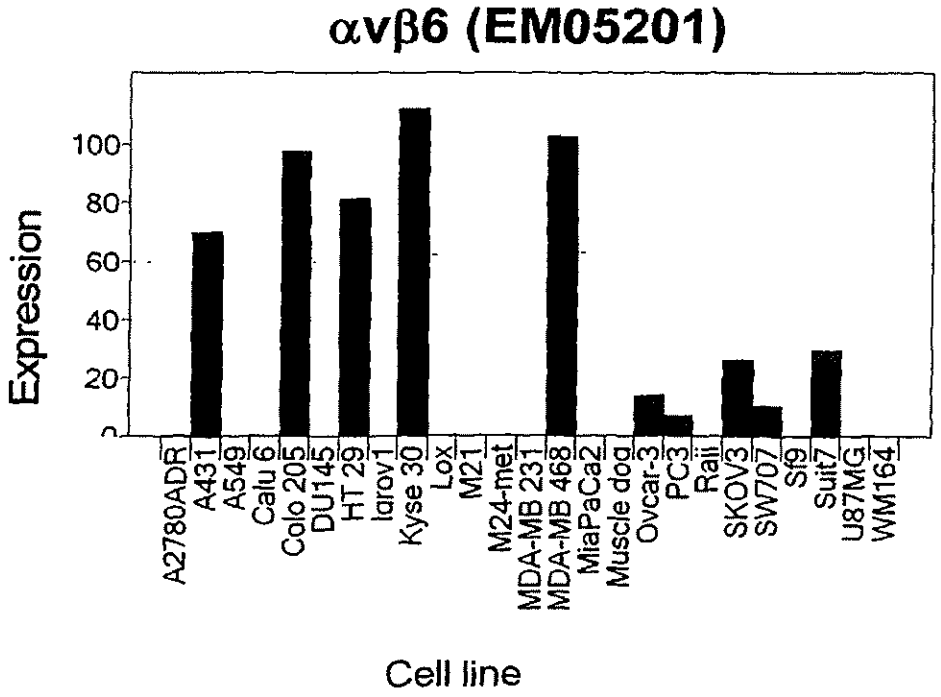


Figure 19

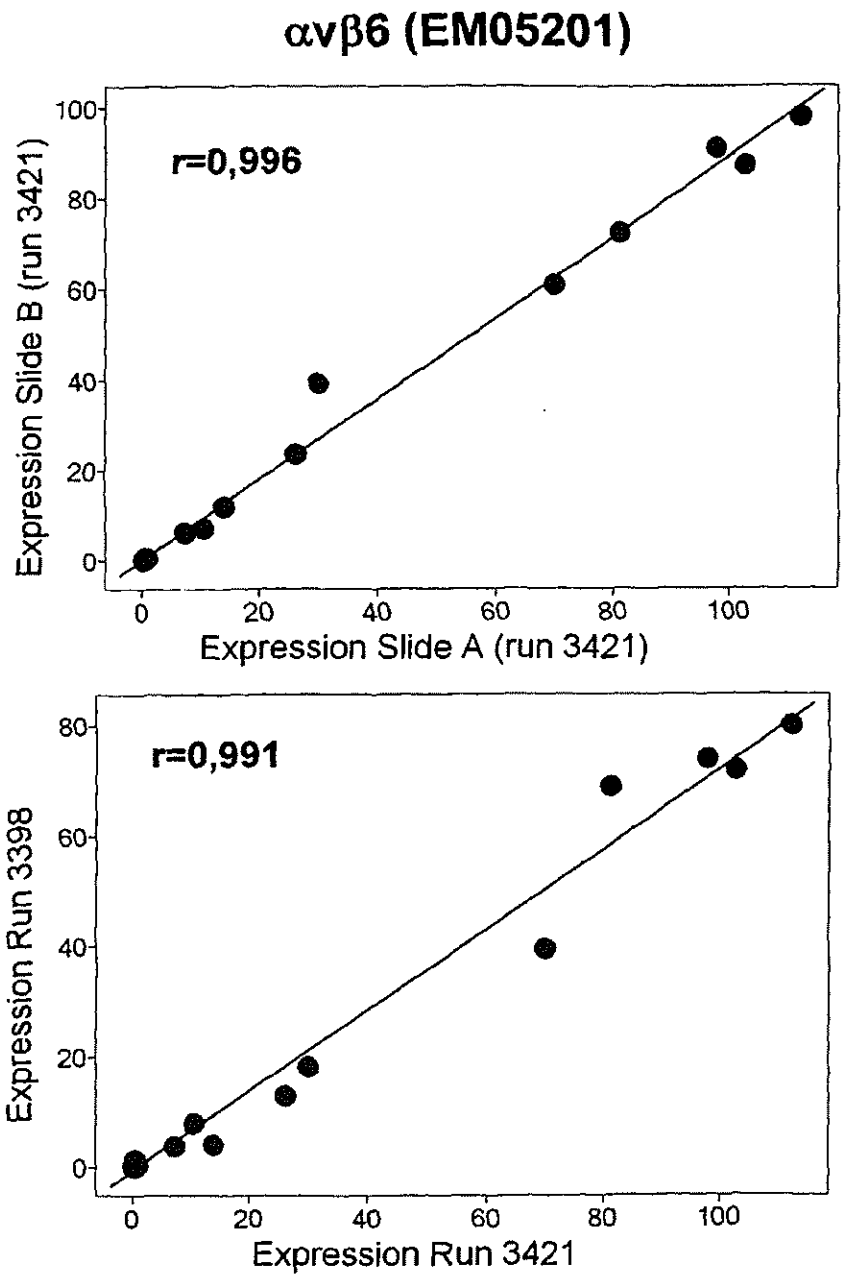

αvβ6 (EM05201)
r=0,996
Expression Slide B (run 3421)
Expression Slide A (run 3421)
r=0,991
Expression Run 3398
Expression Run 3421

Figure 20

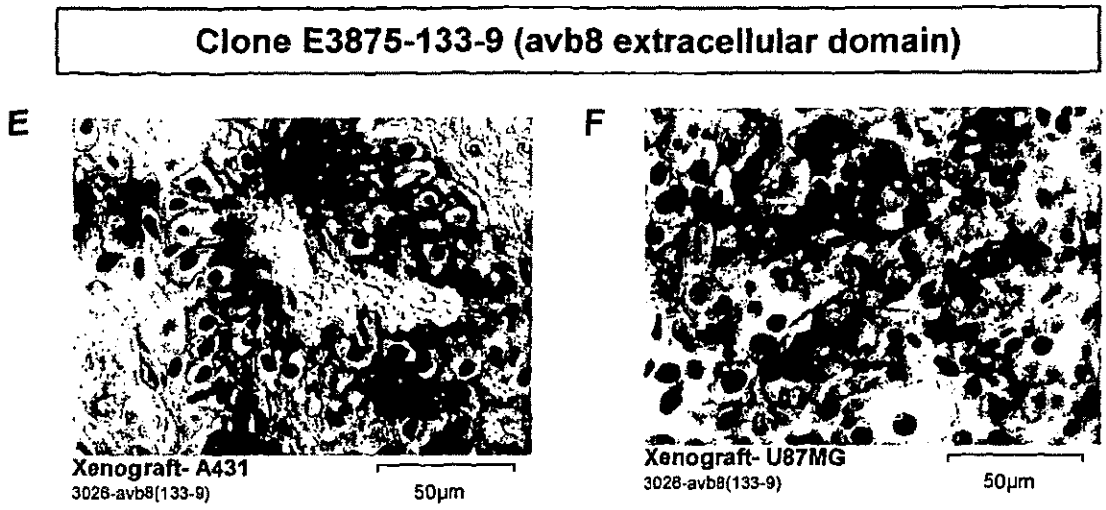
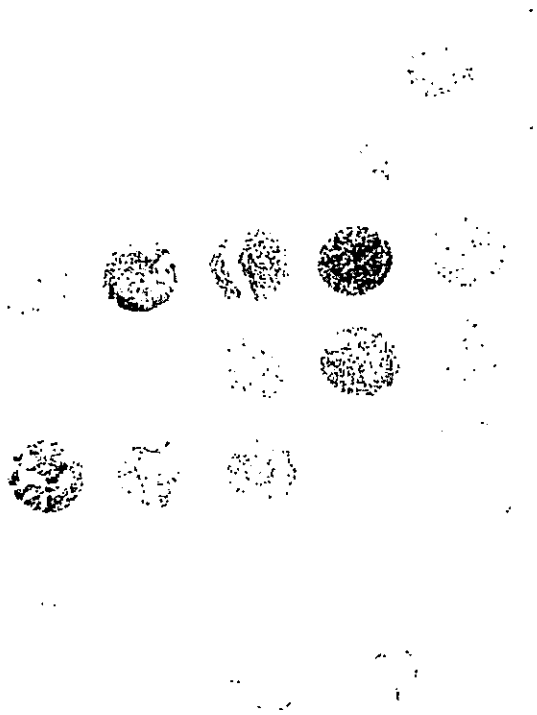

Clone E3875-133-9 (avb8 extracellular domain)
E
Xenograft- A431
3026-avb8(133-9)
50µm
F
Xenograft- U87MG
3026-avb8(133-9)
50µm

Figure 21

Immunohistochemistry with the antibody	Avb8 (E3875-133-9)
Experiment: CAX08	Instrument: MIRAXSCAN
Protocol: 3298	Tissue: Cancer cell lines in vitro (FFPE)



CAX08, overview

CAX08

	1	2	3	4	5
		24 A 431 squams ca oes	**18** Suit 7 pancreas ca	**12** C 8161 melanoma	**6** NHI-H460 LC lung ca
		23 MDA-MB 231 breast ca	**17** MiaPaCa2 pancreas ca	**11** A2780 ADR ovarian ca	**5** Calu 6 lung adeno
	28 Raji Burkitt lymphom	**22** MDA-MB468 breast ca	**16** M24-met melanoma	**10** Ovcar-3 ovarian ca	**4** SW707 colon ca
	27 SF 9 insect cell	**21** MCF 7 breast ca	**15** M 21 melanoma	**9** SKOV 3 ovarian ca	**3** HT 29 colon ca
	26 Igrov1 ovarian ca	**20** PC 3 prostata 3	**14** Lox melanoma	**8** U87MG glioblastoma	**2** Colo 205 colon ca
	25 Kyse 30 squamous ca	**19** DU145 prostata ca	**13** WM 164 melanoma	**7** A 549 lung ca	**1** HCT 116 colon ca
			M*	**M***	

M* = Dog heart mucle for purposes of orientation

Array map, M: dog heart muscle

SUBSTITUTE SHEET (RULE 26)

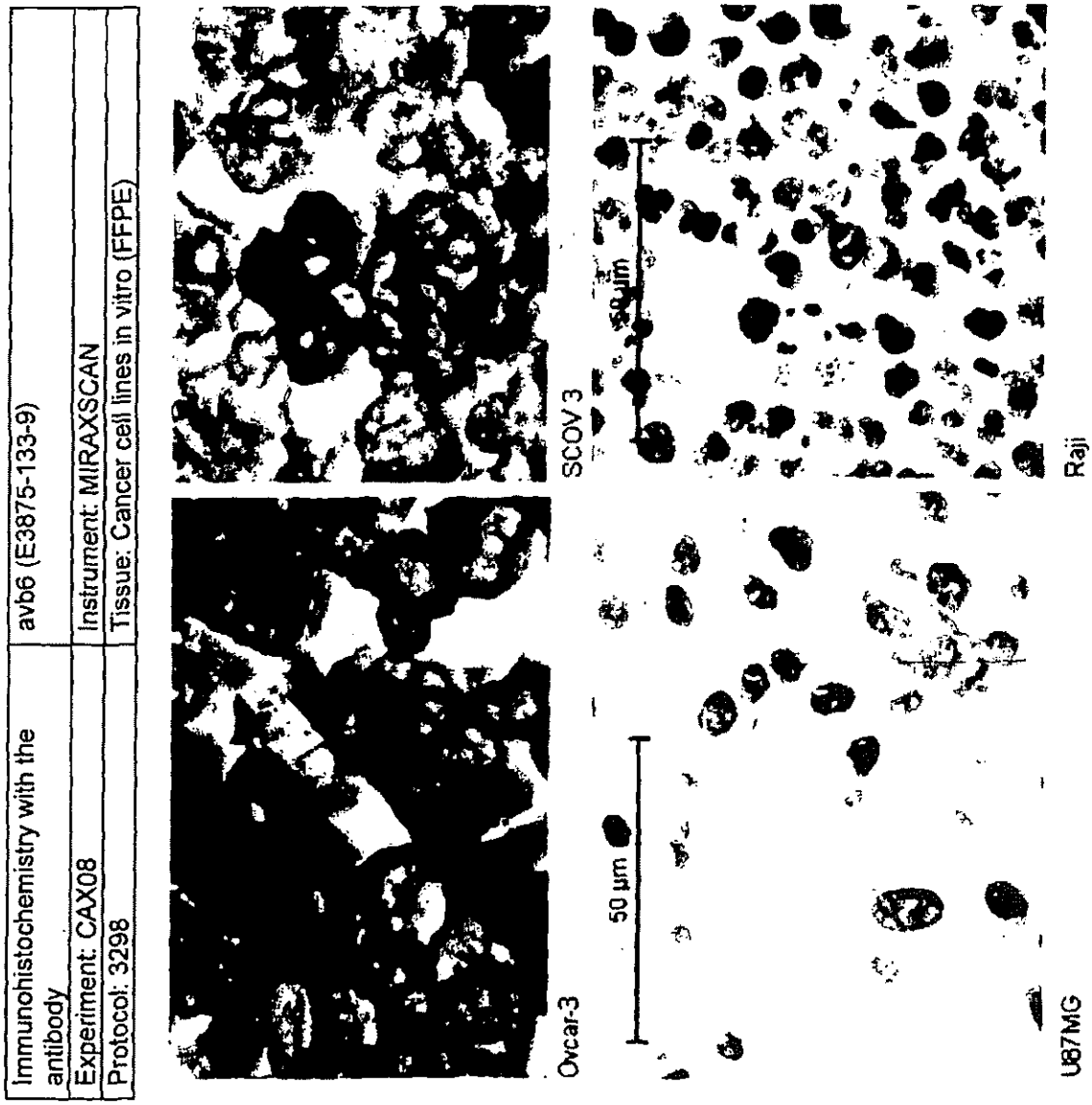

Immunohistochemistry with the antibody
avb6 (E3875-133-9)
Experiment: CAX08
Instrument: MIRAXSCAN
Protocol: 3298
Tissue: Cancer cell lines in vitro (FFPE)
Ovcar-3
SCOV 3
Raji
U87MG
50 µm
50 µm

Figure 22

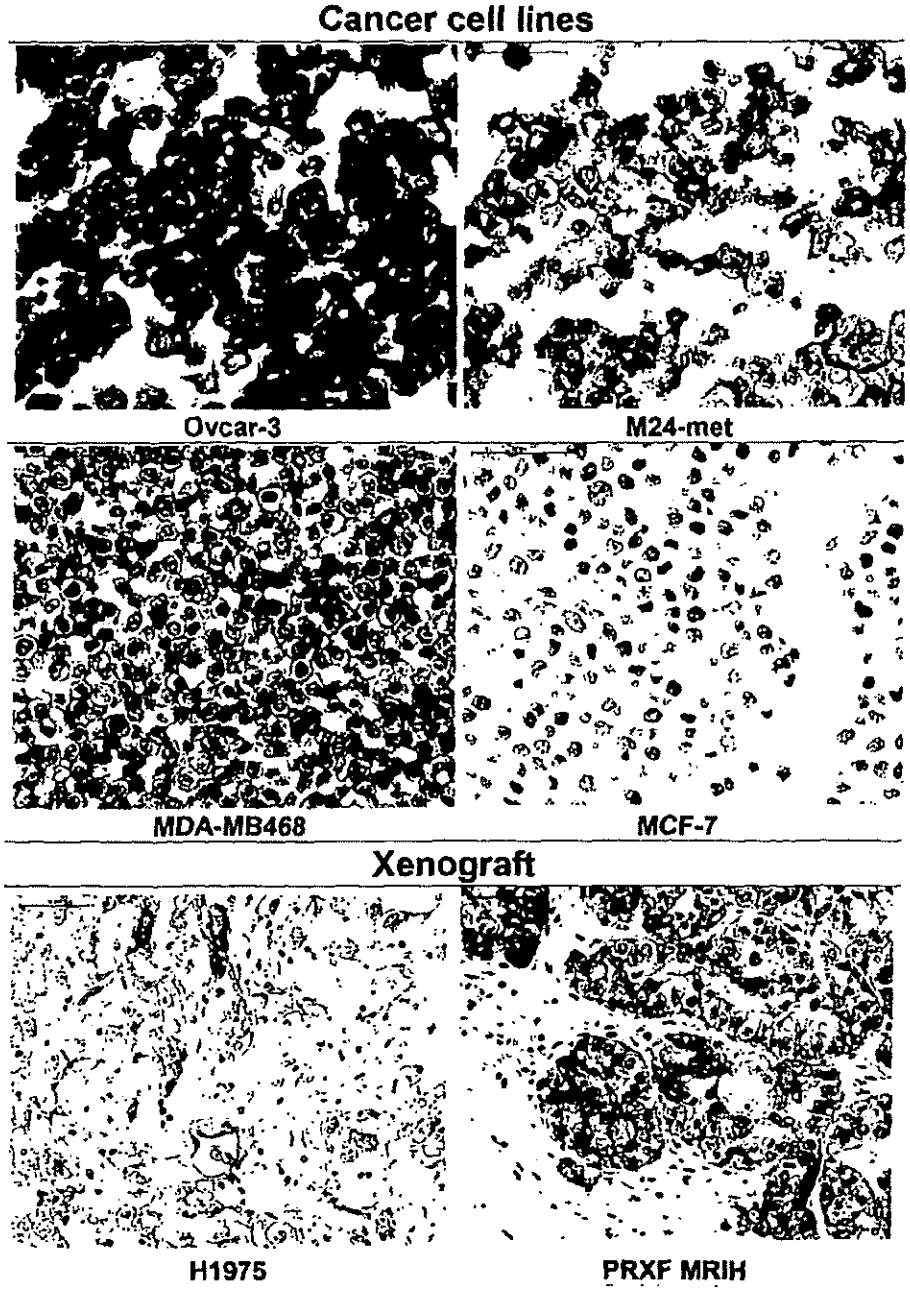

Cancer cell lines
Ovcar-3
M24-met
MDA-MB468
MCF-7
Xenograft
H1975
PRXF MRIH

Figure 23

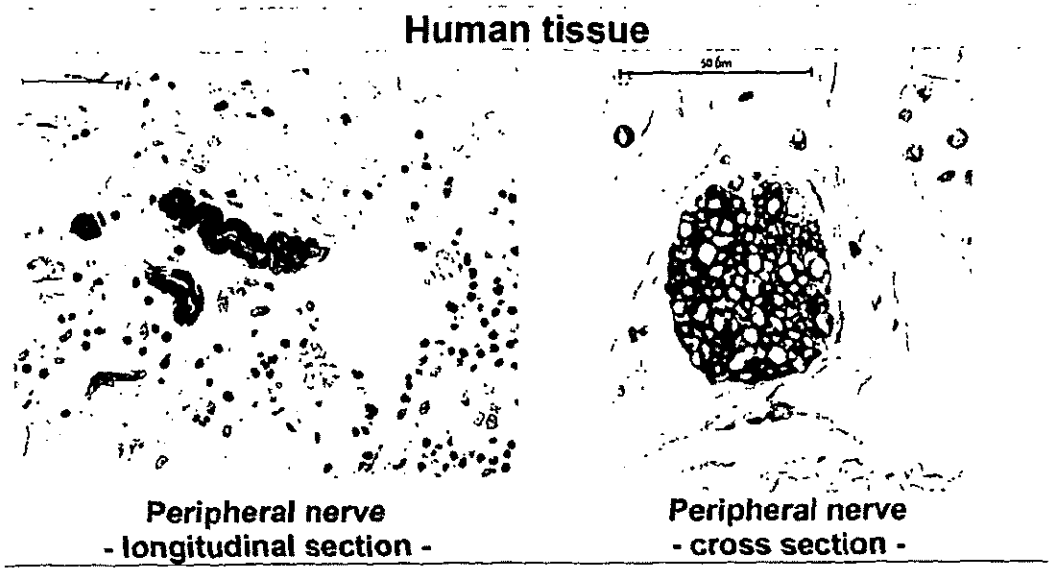


Figure 24

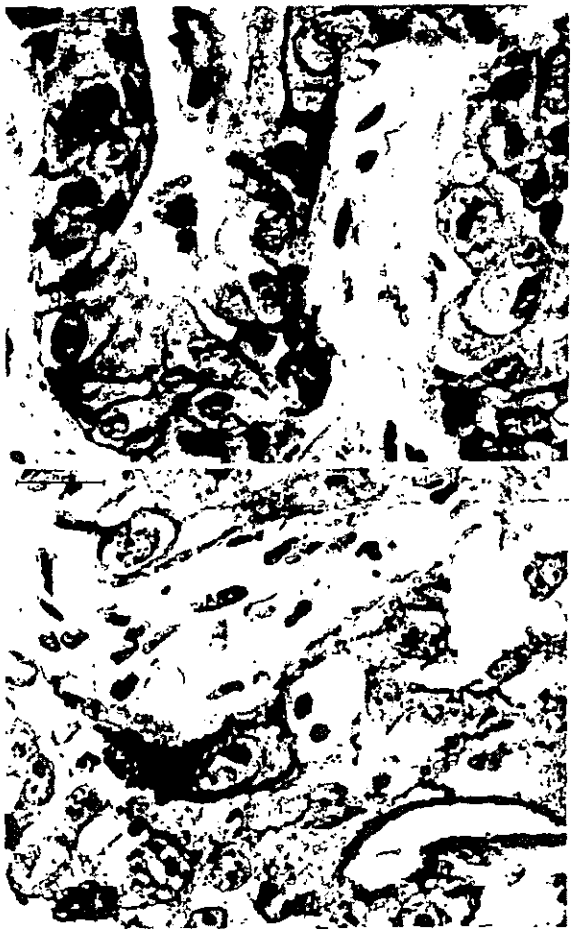


Figure 25

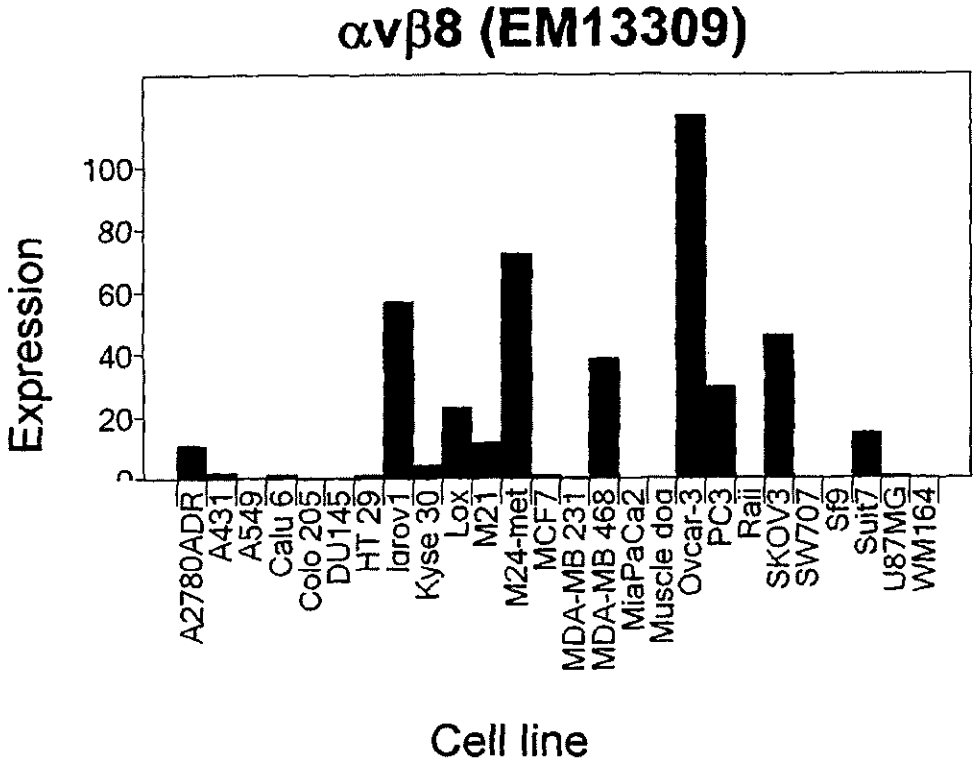

αvβ8 (EM13309)
Expression
100
80
60
40
20
A2780ADR
A431
A549
Calu 6
Colo 205
DU145
HT 29
Iarov1
Kyse 30
Lox
M21
M24-met
MCF7
MDA-MB 231
MDA-MB 468
MiaPaCa2
Muscle dog
Ovcar-3
PC3
Raji
SKOV3
SW707
Sf9
Suit7
U87MG
WM164
Cell line

Figure 26

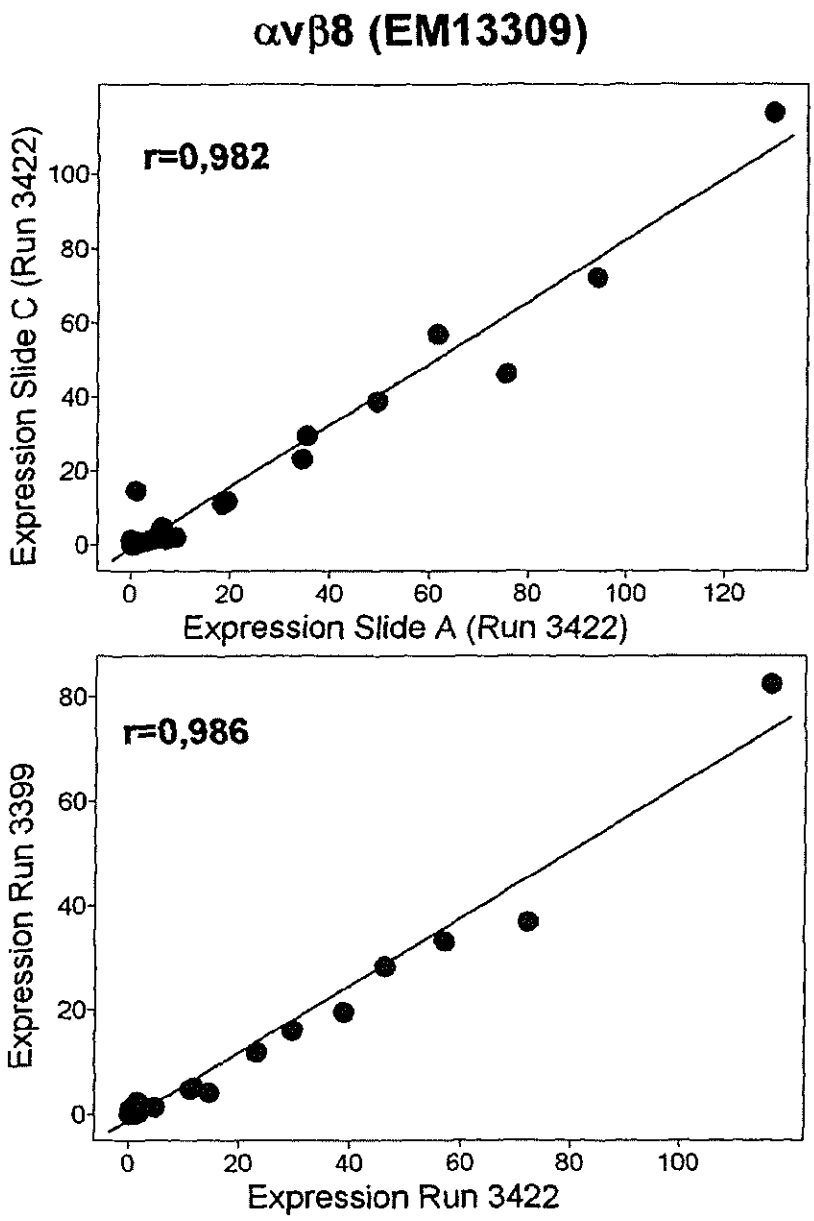

αvβ8 (EM13309)
r=0,982
Expression Slide C (Run 3422)
Expression Slide A (Run 3422)
r=0,986
Expression Run 3399
Expression Run 3422

Figure 27

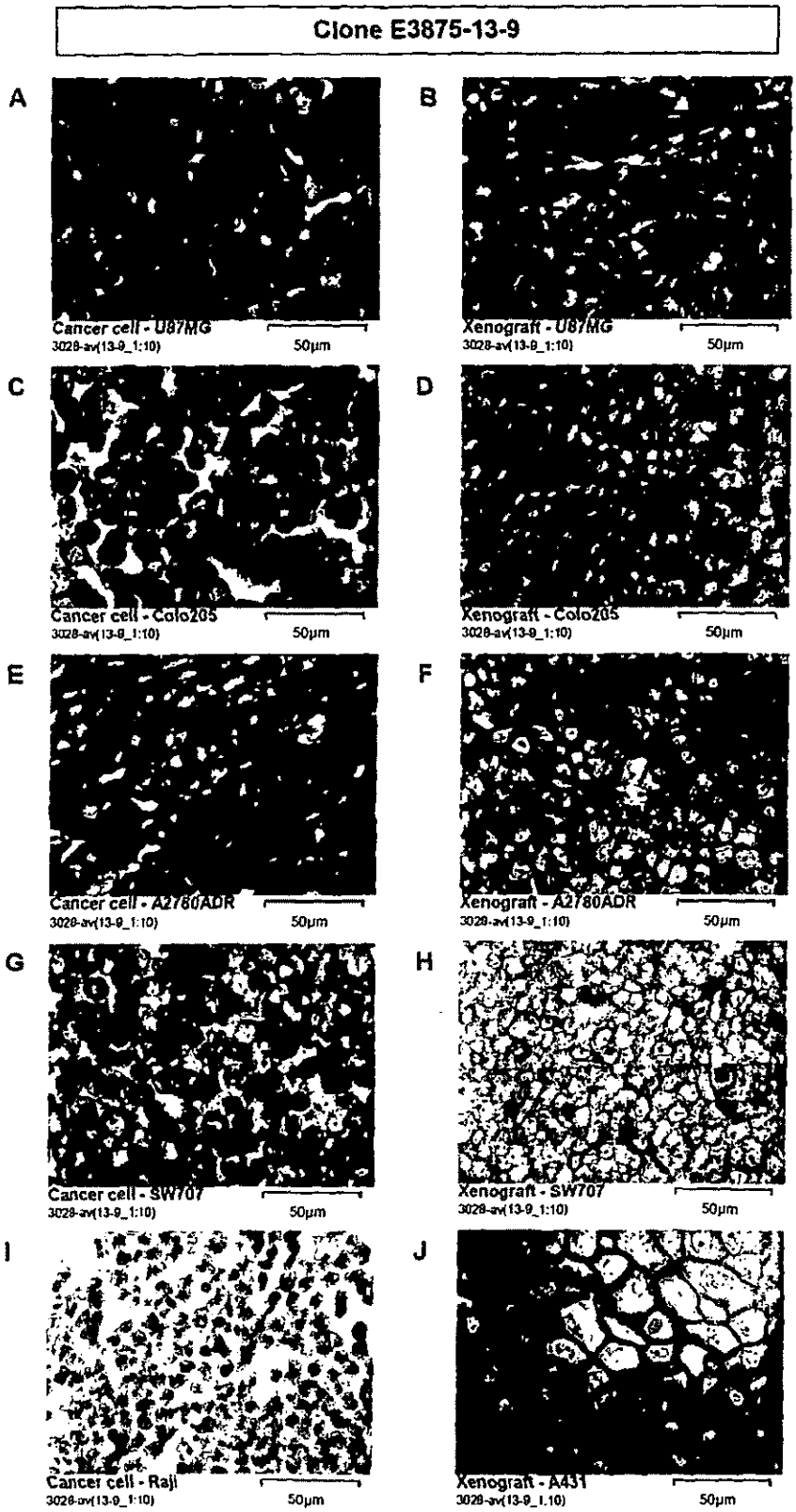
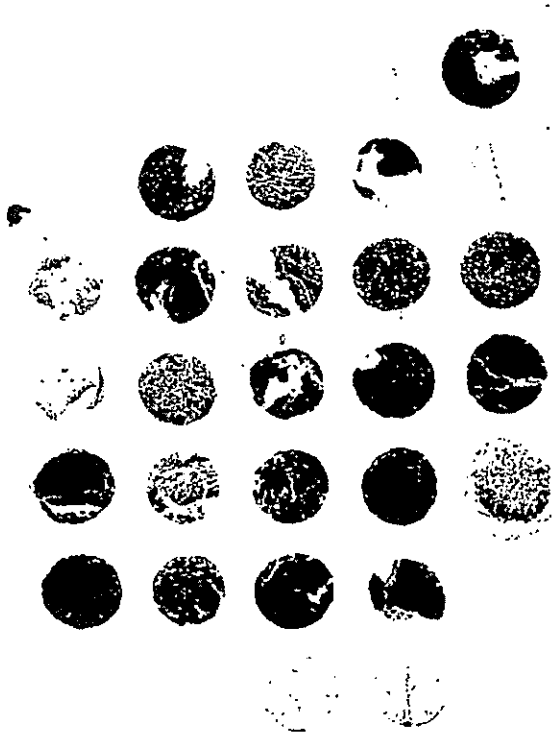

Clone E3875-13-9
A
Cancer cell - U87MG
3028-av(13-9_1:10)
50µm
B
Xenograft - U87MG
3028-av(13-9_1:10)
50µm
C
Cancer cell - Colo205
3028-av(13-9_1:10)
50µm
D
Xenograft - Colo205
3028-av(13-9_1:10)
50µm
E
Cancer cell - A2780ADR
3028-av(13-9_1:10)
50µm
F
Xenograft - A2780ADR
3028-av(13-9_1:10)
50µm
G
Cancer cell - SW707
3028-av(13-9_1:10)
50µm
H
Xenograft - SW707
3028-av(13-9_1:10)
50µm
I
Cancer cell - Raji
3028-av(13-9_1:10)
50µm
J
Xenograft - A431
3028-av(13-9_1:10)
50µm

Figure 28

Immunohistochemistry with the antibody	av (E3875-13-9)
Experiment: CAX08	Instrument: MIRAXSCAN
	Tissue: Cancer cell lines in vitro (FFPE)



CAX08, overview

CAX08	1	2	3	4	5
		24 A 431 squams ca oes	18 Suit 7 pancreas ca	12 C 8161 melanoma	6 NHI-H460 LC lung ca
		23 MDA-MB 231 breast ca	17 MiaPaCa2 pancreas ca	11 A2780 ADR ovarian ca	5 Calu 6 lung adeno
	28 Raji Burkitt lymphom	22 MDA-MB468 breast ca	16 M24-met melanoma	10 Ovcar-3 ovarian ca	4 SW707 colon ca
	27 SF 9 Insect cell	21 MCF 7 breast ca	15 M 21 melanoma	9 SKOV 3 ovarian ca	3 HT 29 colon ca
	26 Igrov1 ovarian ca	20 PC 3 prostata 3	14 Lox melanoma	8 U87MG glioblastoma	2 Colo 205 colon ca
	25 Kyse 30 squamous ca	19 DU145 prostata ca	13 WM 164 melanoma	7 A 549 lung ca	1 HCT 116 colon ca
			M*	M*	

M* = Dog heart mucle for purposes of orientation

Array map, M: dog heart muscle

SUBSTITUTE SHEET (RULE 26)

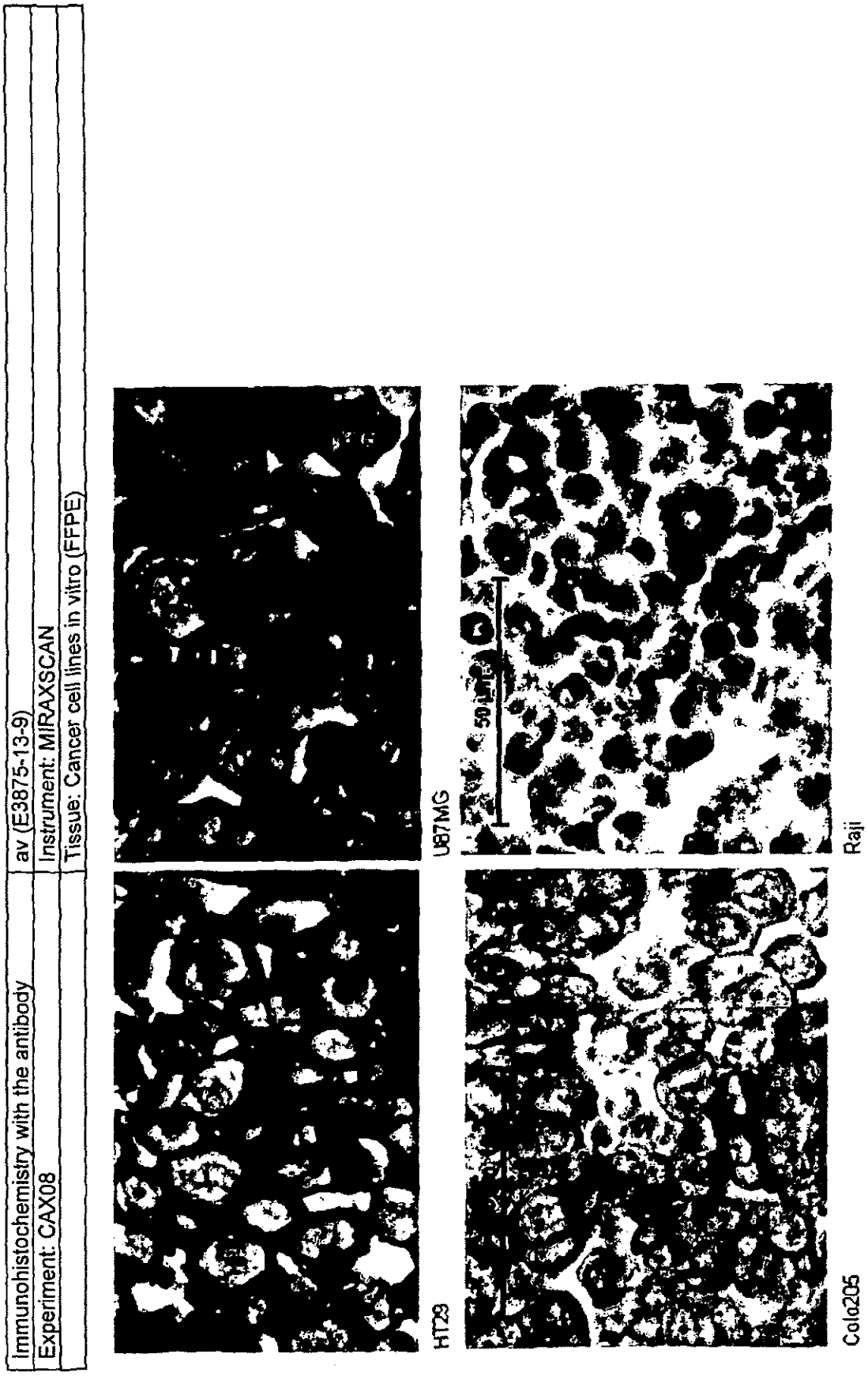

Immunohistochemistry with the antibody
av (E3875-13-9)
Experiment: CAX08
Instrument: MIRAXSCAN
Tissue: Cancer cell lines in vitro (FFPE)
HT29
U87MG
Raji
Colo205

Figure 29

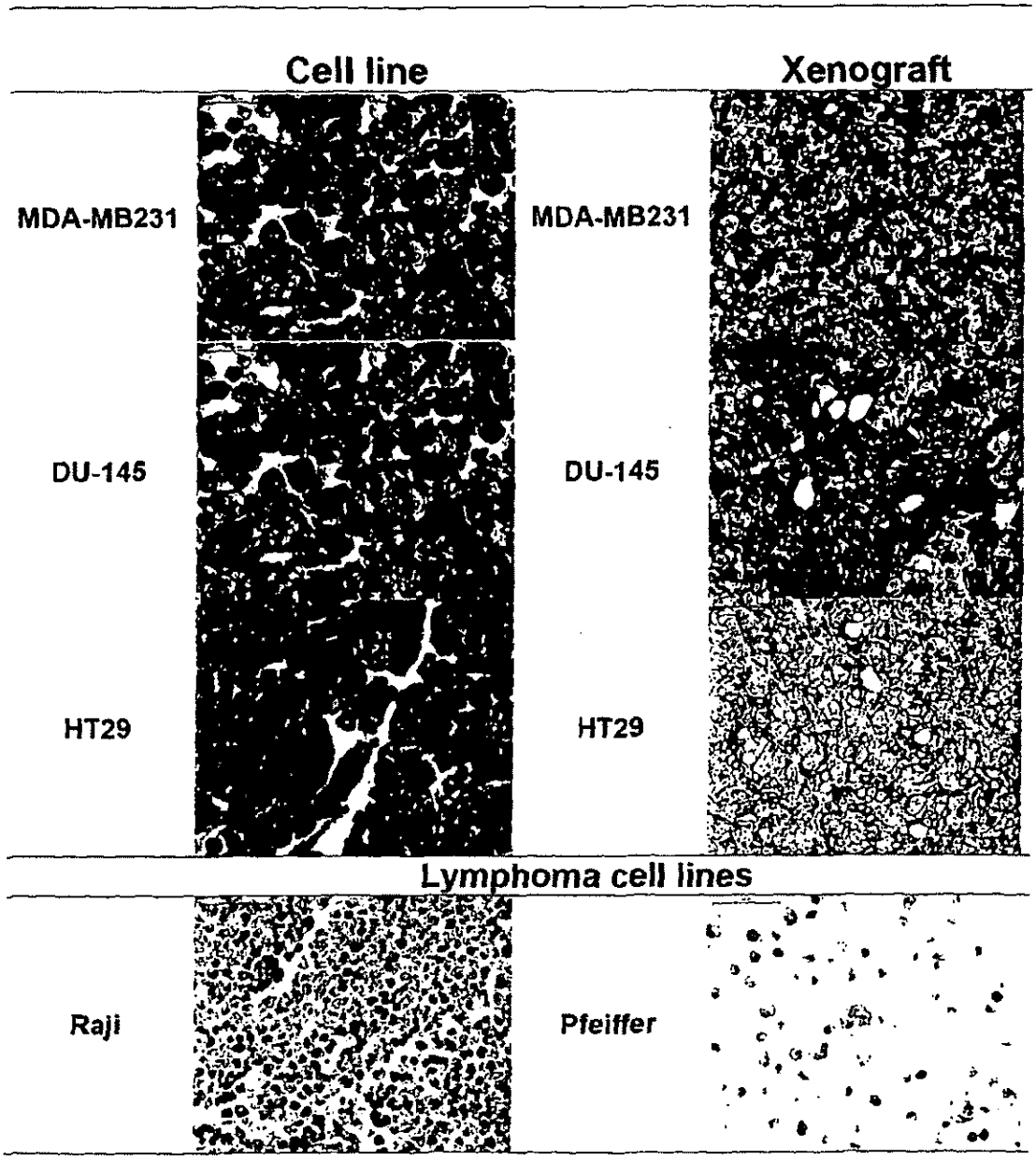

Cell line
Xenograft
MDA-MB231
MDA-MB231
DU-145
DU-145
HT29
HT29
Lymphoma cell lines
Raji
Pfeiffer

Figure 30

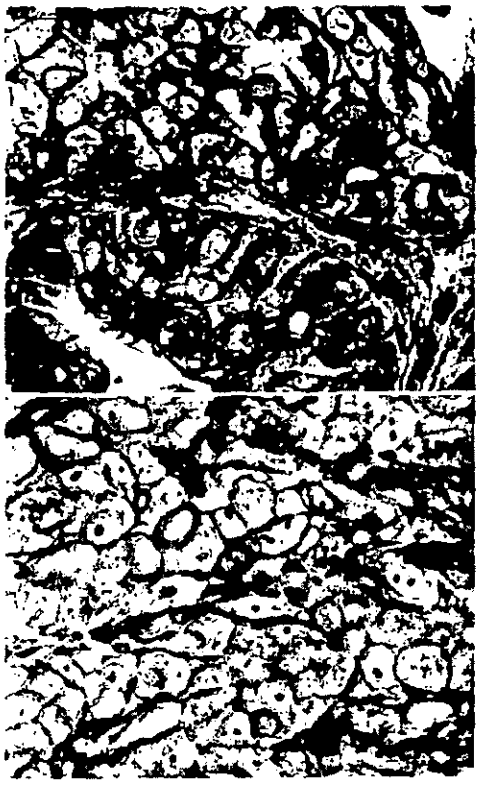


Figure 31

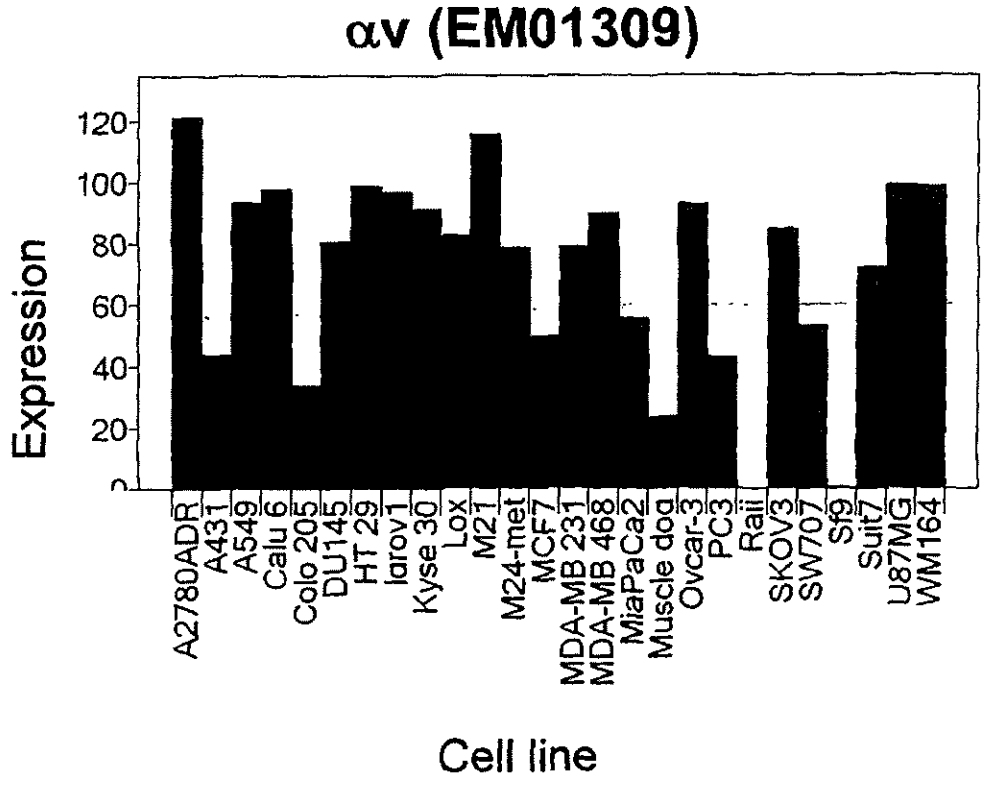


Figure 32

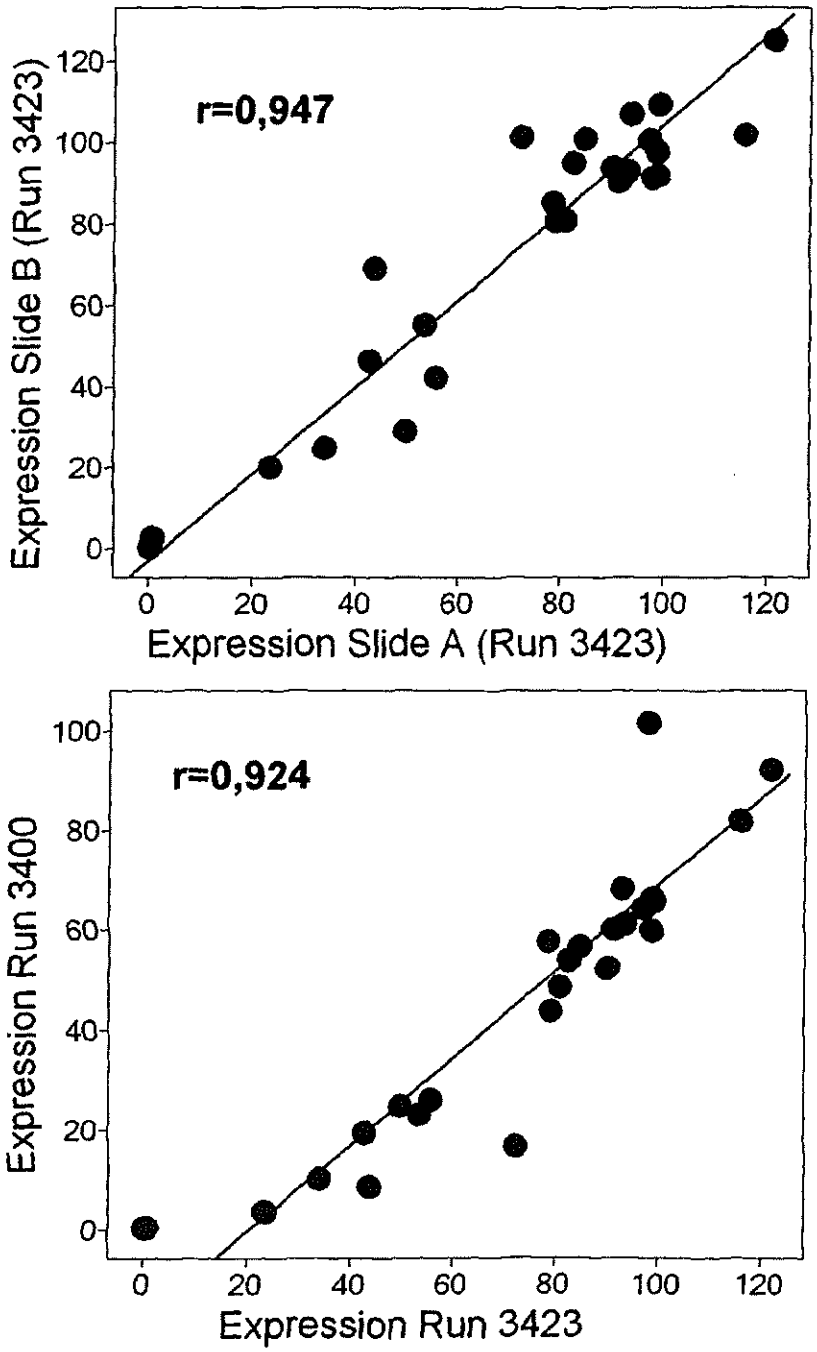
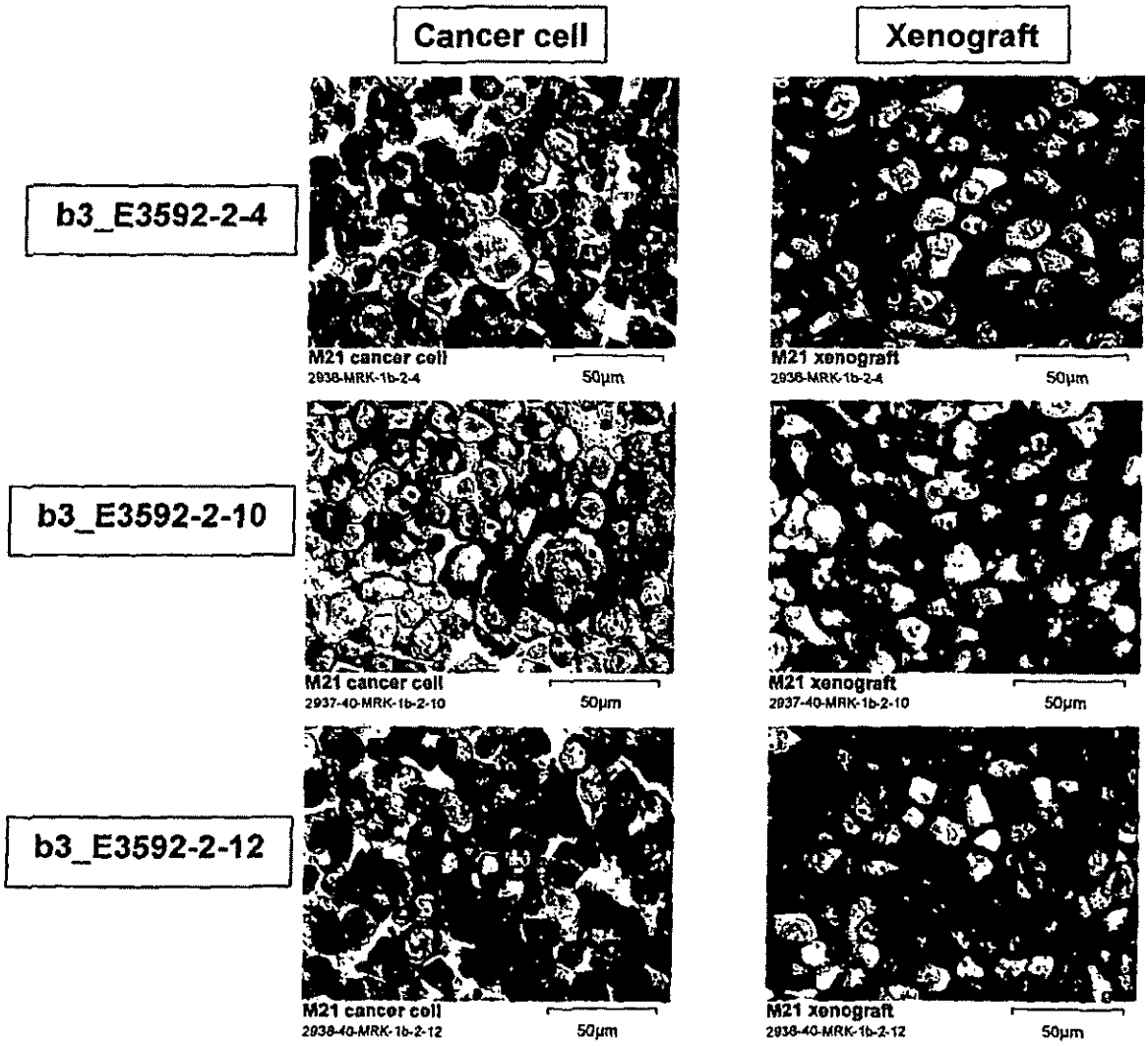

r=0,947
Expression Slide B (Run 3423)
Expression Slide A (Run 3423)
0
20
40
60
80
100
120
r=0,924
Expression Run 3400
Expression Run 3423

Figure 33



Figure 34



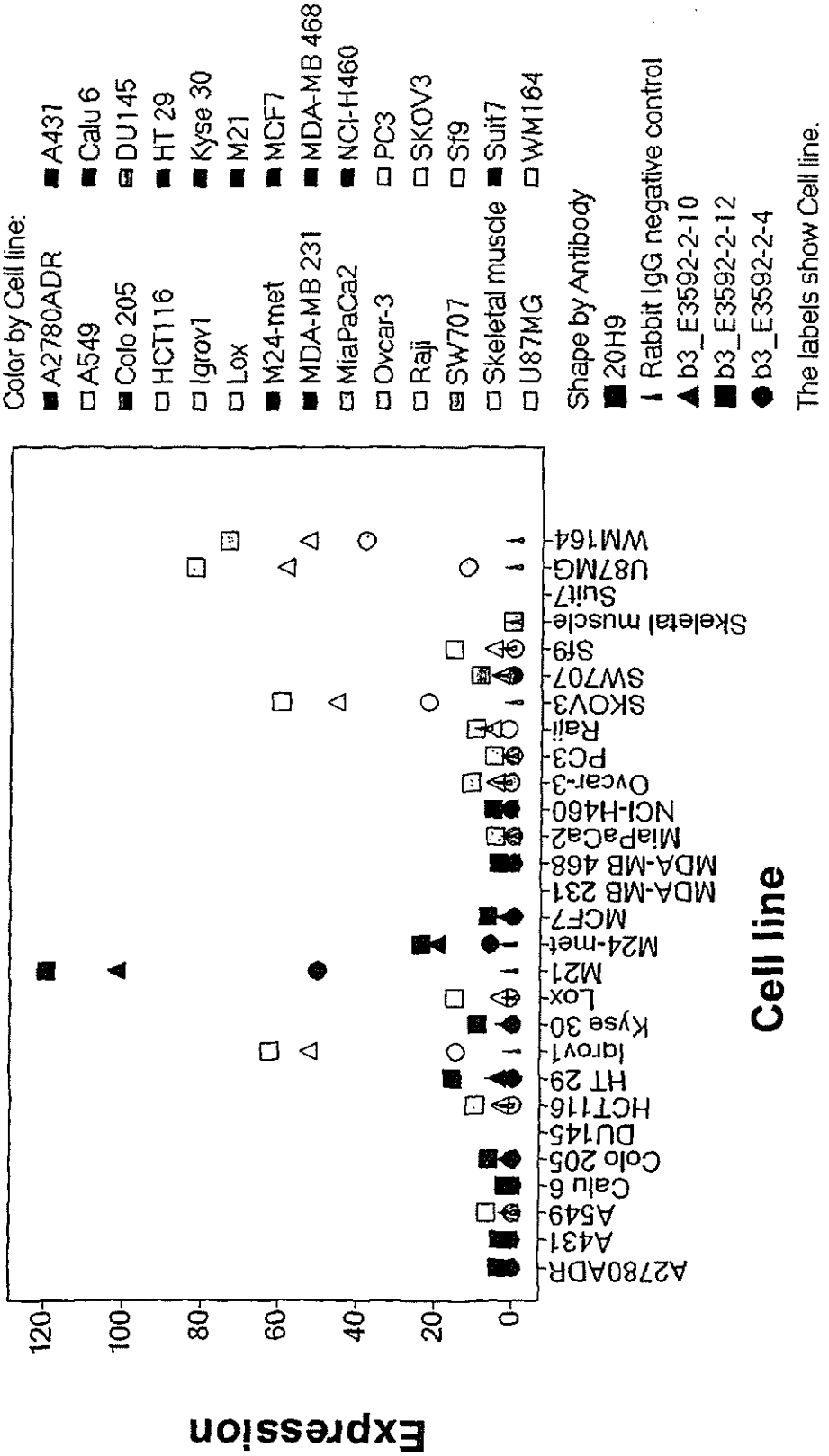

b3_Antibodies
Color by Cell line:
A2780ADR
A549
Colo 205
HCT116
Igrov1
Lox
M24-met
MDA-MB 231
MiaPaCa2
Ovcar-3
Raji
SW707
Skeletal muscle
U87MG
A431
Calu 6
DU145
HT 29
Kyse 30
M21
MCF7
MDA-MB 468
NCI-H460
PC3
SKOV3
Sf9
Suit7
WM164
Shape by Antibody
20H9
Rabbit IgG negative control
b3_E3592-2-10
b3_E3592-2-12
b3_E3592-2-4
The labels show Cell line.
Expression
0
20
40
60
80
100
120
Cell line
A2780ADR
A431
A549
Calu 6
Colo 205
DU145
HCT116
HT 29
Igrov1
Kyse 30
Lox
M21
M24-met
MCF7
MDA-MB 231
MDA-MB 468
MiaPaCa2
NCI-H460
Ovcar-3
PC3
Raji
SKOV3
SW707
Sf9
Skeletal muscle
Suit7
U87MG
WM164

Figure 35

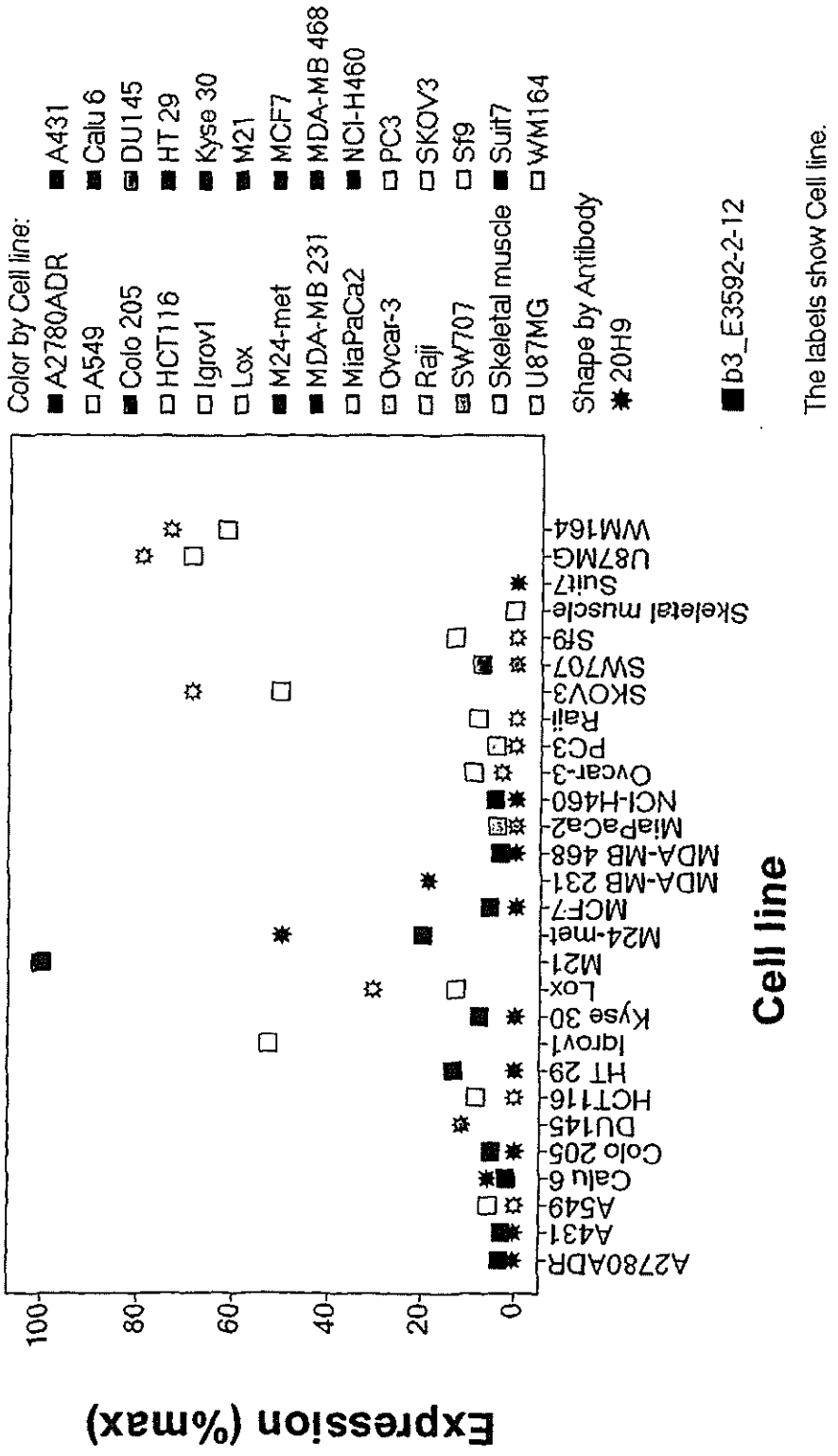

b3_E3592-2-12
Color by Cell line:
A2780ADR
A549
Colo 205
HCT116
Igrov1
Lox
M24-met
MDA-MB 231
MiaPaCa2
Oycar-3
Raji
SW707
Skeletal muscle
U87MG
A431
Calu 6
DU145
HT 29
Kyse 30
M21
MCF7
MDA-MB 468
NCI-H460
PC3
SKOV3
Sf9
Suit7
WM164
Shape by Antibody
20H9
b3_E3592-2-12
The labels show Cell line.
Expression (%max)
100
80
60
40
20
0
A2780ADR
A431
A549
Calu 6
Colo 205
DU145
HCT116
HT 29
Igrov1
Kyse 30
Lox
M21
M24-met
MCF7
MDA-MB 231
MDA-MB 468
MiaPaCa2
NCI-H460
Oycar-3
PC3
Raji
SKOV3
SW707
Sf9
Skeletal muscle
Suit7
U87MG
WM164
Cell line

Figure 36

Figure 37

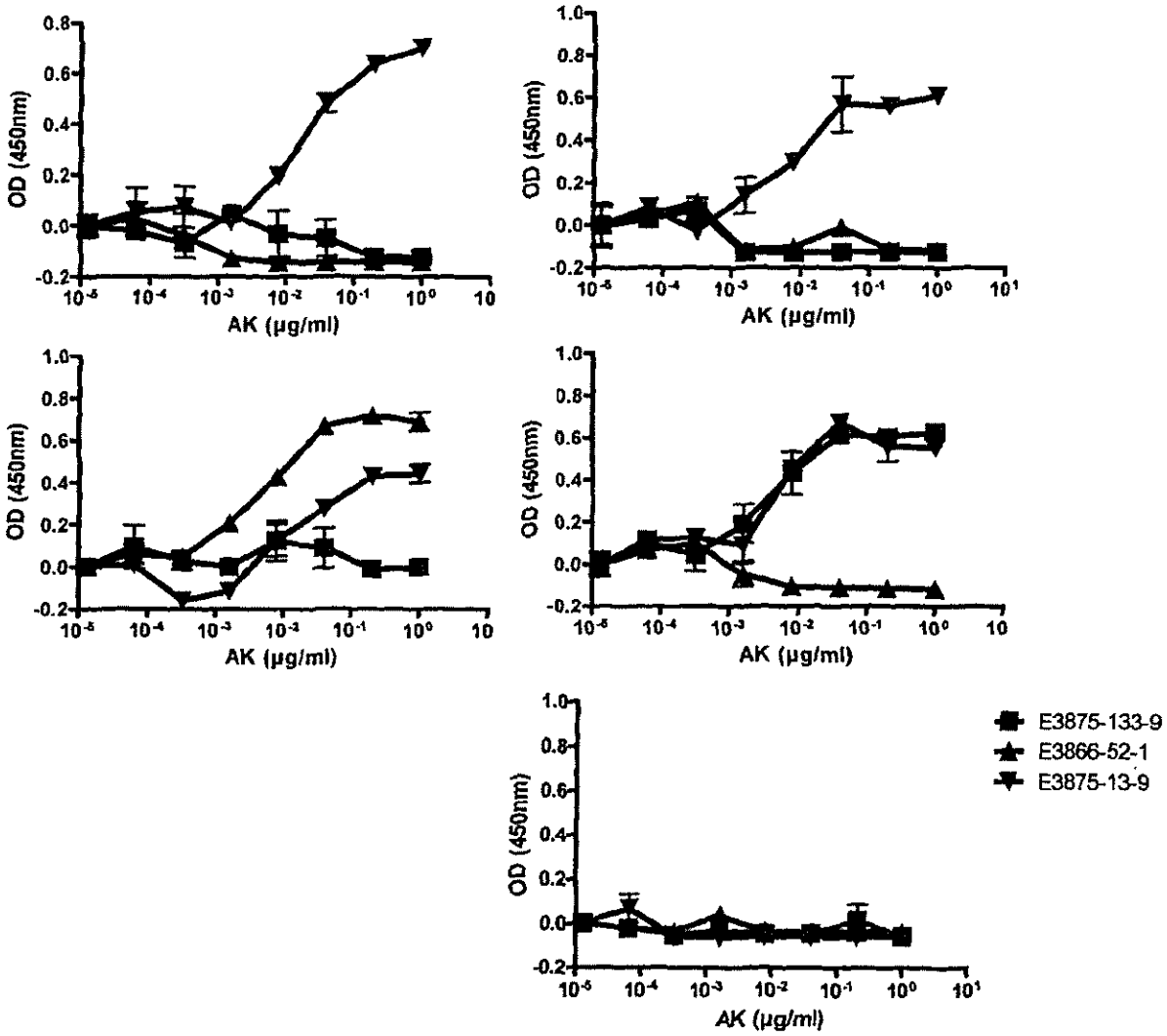


Figure 38

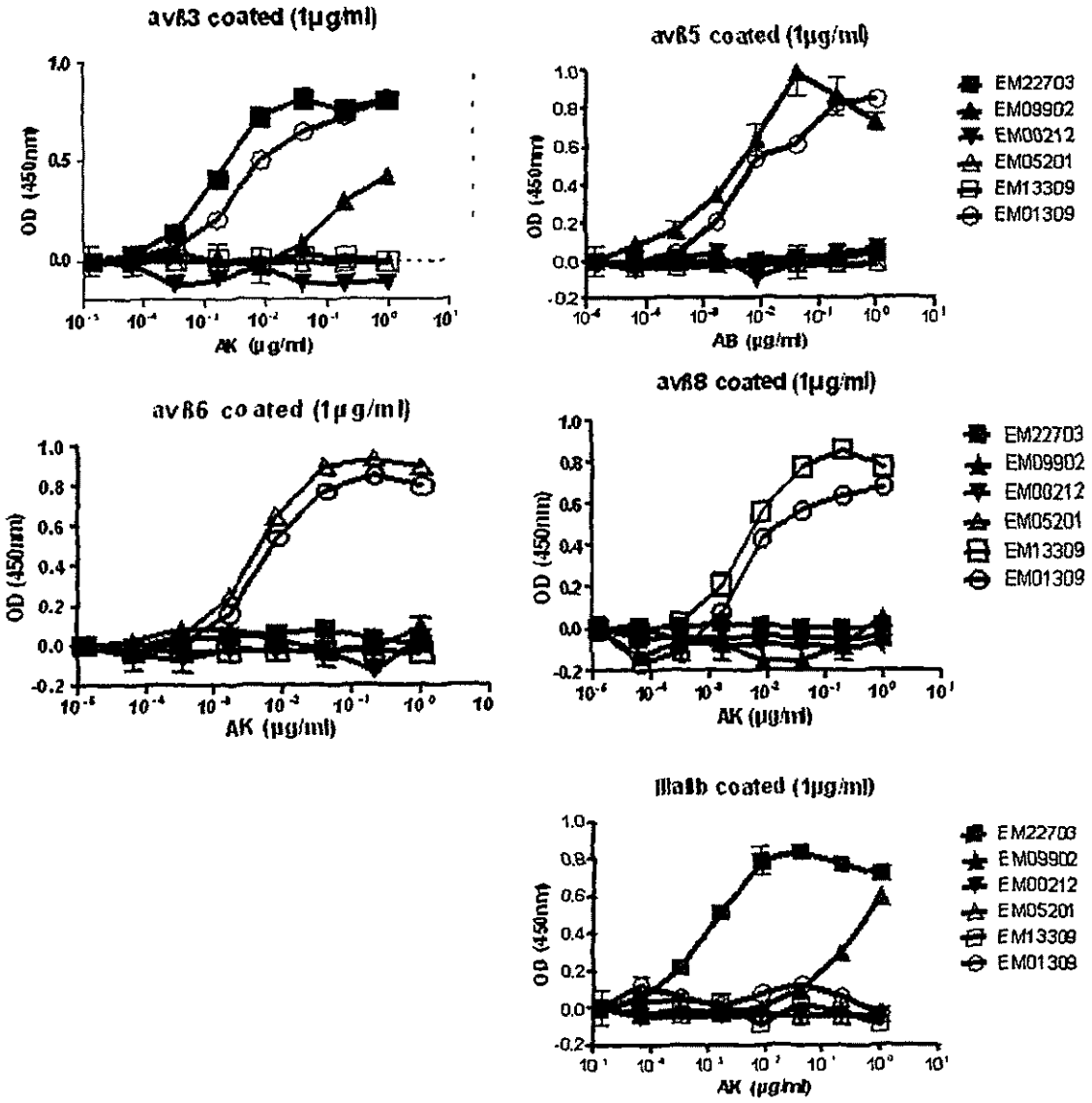
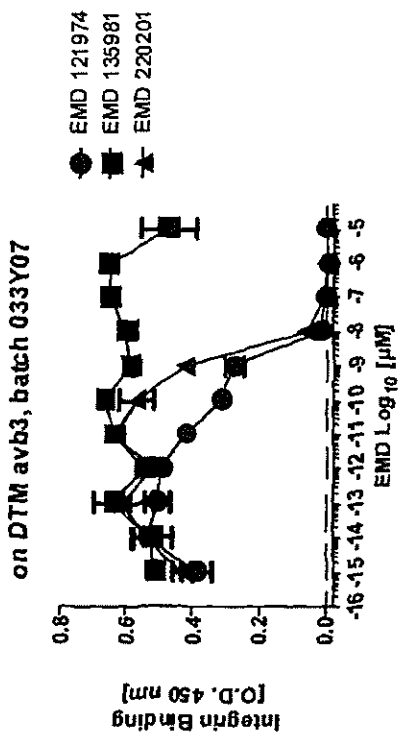
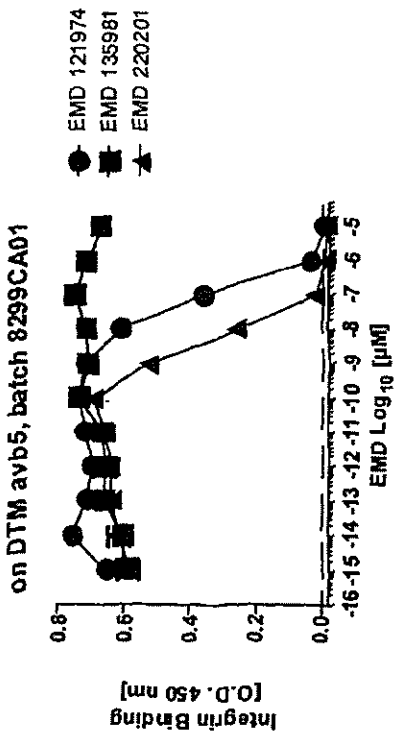
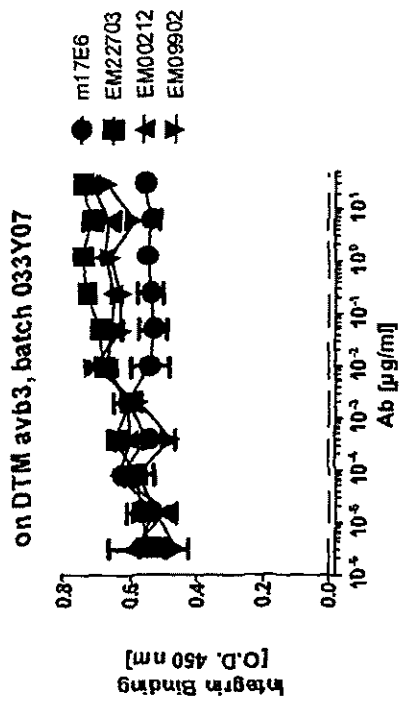
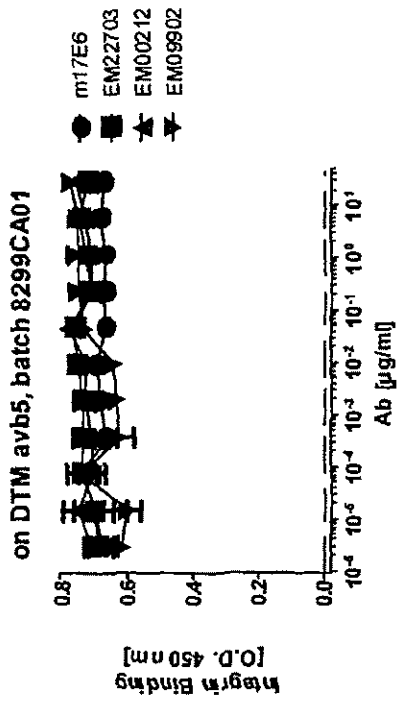

avß3 coated (1µg/ml)
OD (450nm)
AK (µg/ml)
avß5 coated (1µg/ml)
AB (µg/ml)
avß6 coated (1µg/ml)
AK (µg/ml)
avß8 coated (1µg/ml)
AK (µg/ml)
IIaIIb coated (1µg/ml)
AK (µg/ml)
EM22703
EM09902
EM00212
EM05201
EM13309
EM01309

Figure 39


on DTM avb3, batch 033Y07
EMD 121974
EMD 135981
EMD 220201
Integrin Binding [O.D. 450 nm]
EMD Log10 [µM]


on DTM avb5, batch 8299CA01
EMD 121974
EMD 135981
EMD 220201
Integrin Binding [O.D. 450 nm]
EMD Log10 [µM]


on DTM avb3, batch 033Y07
m17E6
EM22703
EM00212
EM09902
Integrin Binding [O.D. 450 nm]
Ab [µg/ml]


on DTM avb5, batch 8299CA01
m17E6
EM22703
EM00212
EM09902
Integrin Binding [O.D. 450 nm]
Ab [µg/ml]