Fig. 2J



5 Biological Replicates

C57BL/6





Fig. 4E

Mouse Lung Tissue







Fig. 4F





Supplementary Fig. 11

3h

+

2

.g

5

-55

-3

-55

-8

-2

-2

- 22

- 23

-8-



Fig. 4G



3 Biological Replicates





Supplementary Fig. 11

Fig. 4H













3 Biological Replicates

48h

48h

55

8

55

6

3

30

- 33

-

55

8

55

40

130

130

g

48h

55

8

55

6

-30

130

g

TGF-β -+

α-**SMA** (42)

PAI-1 (47)

E-cad (135)

N-cad

GAPDH (37)

(140)



BEAS-2B





Supplementary Fig. 11 MRC5

3h

+ +

30 100

-2

- 23

-3

-អ

-2

- 27

-8

-2

-2

- 22

. 4

- <u>+</u>

.<u></u>

===

- +

- -

TGF-ß

SMAD2 (60)

> SRC (60)

YES1 (60)

p70S6K (70,85)

> AKT (60)

MEK (45)

ERK (42,44)

GAPDH (37)

NXP900 (nM)

J

Fig. 4J



3 Biological Replicates



3 Biological Replicates





Supplementary Fig. 11

BEAS-2B

3h

- +

-

+ +

ទ្រ

5

55

20

55

ŝ

-7

. ce

- 30 100

====

Fig. 4K



4 Biological Replicates

TGE	3h	3h	3h	3h
NXP900 (nM	l) 30100 -	- 30 100	30 100	30 100
p-SMAD2 (60)				
p-SFK (60)		-70 -55		
p-p70S6K (70,85)		-00-70	-100 -100 -100 -100	
p-AKT (60)				
p-MEK (45)		-55 <u>4</u> 0	-55 -6	 _40
p-ERK (42,44)	=====		====_8	==== ₋₈
GAPDH (37)				35

3 Biological Replicates













Fig. 4M









	48h		48h	48	Bh	48h
Radiation (Gy)	- 12		- 12	-	12	- 12
p-SMAD2 (60)	TOTAL C	- 70 - 55	Rows of	70 55	- 70 - 55	- 70 - 55
SMAD2 (60)		- 70 - 55		-70	- 70 - 55	- 70 - 55
p-SFK (60)		-70 -55		-70 -55	5 - 5	
SRC (60)		- 70 - 55		70	70 - 55 - 55	
YES1 (60)		- 55 -		70 55	70 55	
GAPDH (37)		- 3		- 35	-35	—— _3

Fig. 5C



Radiation 12 Gy	48h - +		48h - +		48h - +		48h - +	
p-SFK (60)	22	70 55	11	70 55	<u>1</u>	70 55		70 55
SRC (60)		70 55 		70 55		70 55 		- 70 55
YES1 (60)		70 55		- 70 55 -		70 55 		70 55
α- SMA (42)		-55 -40		- 55 40		55 40		55 40
PAI-1 (47)		55 40		55 40		55 40		55 40
E-cad (135)		130 -		130		130		130
N-cad (140)		-130		130		130		130 -
GAPDH (37)		- 35		- 35		35		_35

Supplementary Fig. 11

BEAS-2B



Fig. 5D

BEAS-2B





	3 Biologi	cal Replic 3h	ates		3 Bio	logical 481	4	4 Biological Replicates 3h					
Radiation (Gy)	- 12	- 12	- 12	Radiation (Gy)	- 12	- 1	2	- 12	Radiation (Gy)	- 12 -	12 -	12 -	12
p-SMAD2 (60)	-70 -55	-70 -55	-70 -55	α-SMA (42)	**	55 40	- 55 - 40	-55 - 40	SMAD2 (60)				
p-SFK (60)				PAI-1 (47)	-	55 40	-55 -40	- 5 - 4 0	SRC (60)				
p-AKT (60)				E-cad (135)		130	130	130	YES1 (60)				- ⁷⁰ -55
p-p70S6K (70,85)	100 70		- - - 70	N-cad (140)		130	-130		AKT (60)				
p-MEK (45)			 ⁻⁵⁵ -0	GAPDH (37)		35		 _3	p70S6K (70,85)				-00 -0
p-ERK (42,44)	- - _8	- - -8	₋₈						MEK (45)				-5 -4
GAPDH (37)	₋₈	——_ _—							ERK (42,44)	===	==	==	=_5 =_4
									GAPDH (37)				- _35



BEAS-2B



Fig. 5E

+

+

4





3 Biological Replicates

					3h					
Radiation	-	+	+	-	+	+	-	+	+	
NXP900	•	-	+	-	-	+	-	-	+	
									-	-2
SMAD2 (60)	-	-		•	11		••	••	-	_ ហ្គ
(00)										0
										7
SRC	_		_	_	_	-	_	-	-	-3
(60)	-	-							-	-5
YES1										-2
(60)	-	-	-	-	-	-	-	-	-	-ភ
AIZT										-2
AK I (60)	-	-	-	-	-	-	-	-	-	_ ហ
(00)										01
										-0
p70S6K	-	-	-					-		0
(70,85)	-	-	-	-	-	7	-	-	-	-9
MEK										-5
(45)	-	-	-	-	-	-	-	-	-	- 4
										0
										-25
ERK	_	=	=	=	=	=	=	=	=	•.
(42,44)	-	-	-	_	_		_	_	_	-8
				_			_		_	
(37)	-	-	-	-	-	-	-	-	-	- 33
. ,										

3 Biological Replicates 48h													
Radiation NXP900	-	+ -	+ +	•	+ -	+ +	-	+ -	+ +				
α -SMA (42)	-	-	-	-	-	-	-	-	-	-55 -40			
PAI-1 (47)	=	-							=	55 40			
E-cad (135)										-130 -			
N-cad (140)	-	-	-	-	-	-	-	-	-	- 130			
GAPDH (37)	-	-	-	-	-	-	-	-	-	- 35			

					3h					
Radiation NXP900	-	+ · - ·	+ +	-	+ -	+ +	-	+ -	+ +	
p-SMAD2 (60)			-70 -55	Ċ		70 55 			-	70 55
p-SFK (60)	-		70 55 	-		70 55 		-		70 55
р-АКТ (60)	-		70 55	=	-	- 70 - 55	-	-	-	70 55
p-p70S6K (70,85)	-		100 70	-	-	100 - 70	-	-	-	100 - 70
p-MEK (45)	-		55 40	-	-	55 40	-	-	-	- 55 - 40
p-ERK (42,44)	-		-4	-	-	-4	-	-	-	-40
GAPDH (37)	-		-35	-	-	- 3 5	-	-	-	- 35



BEAS-2B

















Fig. 8G

Mouse Lung Tissue







Fig.8H

Mouse Primary Lung Fibroblast





2 Different Mouse Primary Cell

Supplementary Fig. S5



Control

Radiation



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1	POS1	POS2	POS3	Blank	Blank	Blank	Blank	Blank	1	2	3	4	5	Blank	6	7	8	9	10	11	12									
2	POS1	POS2	POS3	Blank	Blank	Blank	Blank	Blank	1	2	3	4	5	Blank	6	7	8	9	10	11	12									
3	Blank	13	14	15	16	17	Blank	18	19	20	21	22	23	24																
4	Blank	13	14	15	16	17	Blank	18	19	20	21	22	23	24																
5	25	26	27	28	29	30	31	32	33	34	35	36	37	Blank	Blank	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
6	25	26	27	28	29	30	31	32	33	34	35	36	37	Blank	Blank	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
7	53	54	55	56	57	58	59	60	61	62	63	64	65	Blank	Blank	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
8	53	54	55	56	57	58	59	60	61	62	63	64	65	Blank	Blank	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
9	81	82	83	84	85	86	87	88	89	90	91	92	93	Blank	Blank	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108
10	81	82	83	84	85	86	87	88	89	90	91	92	93	Blank	Blank	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108
11	109	110	111	112	113	114	115	116	117	118	119	120	121	Blank	Blank	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136
12	109	110	111	112	113	114	115	116	117	118	119	120	121	Blank	Blank	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136
13	Blank	137	138	139	140	141	Blank	142	143	144	145	146	147	148																
14	Blank	137	138	139	140	141	Blank	142	143	144	145	146	147	148																
15	Blank	149	150	151	152	153	Blank	154	155	156	157	158	159	160																
16	Blank	149	150	151	152	153	Blank	154	155	156	157	158	159	160																
17	Blank	161	162	163	164	165	Blank	166	167	168	169	170	171	172																
18	Blank	161	162	163	164	165	Blank	166	167	168	169	170	171	172																
19	173	174	175	176	177	178	179	180	181	182	183	184	185	Blank	Blank	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
20	173	174	175	176	177	178	179	180	181	182	183	184	185	Blank	Blank	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
21	201	202	203	204	205	206	207	208	209	210	211	212	213	Blank	Blank	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228
22	201	202	203	204	205	206	207	208	209	210	211	212	213	Blank	Blank	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228
23	229	230	231	232	233	234	235	236	237	238	239	240	241	Blank	Blank	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256
24	229	230	231	232	233	234	235	236	237	238	239	240	241	Blank	Blank	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256
25	257	258	259	260	261	262	263	264	265	266	267	268	269	Blank	Blank	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284
26	257	258	259	260	261	262	263	264	265	266	267	268	269	Blank	Blank	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284
27	Blank	285	286	287	288	289	Blank	Blank	290	291	292	293	294	295	296	Blank														
28	Blank	285	286	287	288	289	Blank	Blank	290	291	292	293	294	295	296	Blank														
29	Blank	297	298	299	300	301	Blank	Blank	302	303	304	305	306	307	308	Blank	Blank	Blank	Blank	Blank	POS3	POS2	POSI							
30	Blank	297	298	299	300	301	Blank	Blank	302	303	304	305	306	307	308	Blank	Blank	Blank	Blank	Blank	POS3	POS2	POS1							

VI. Antibody Array Target List

	Barris			Harakara .	Name		News	harter	
1	6Ckipe	63	OPPIN	125	IGERP.1	197	H-288	240	sci p
2	Activita	64	092	125	IGFBP-2	100	10-265	249	SDE-1
	Artivia	66	Dek	137	10109-1	190	11.21.04	250	501-1
4	Activic P18	66	FDAR	128	IGERD-S	190	Inculia	252	Shh.N
5	Adioopertin	67	FGFR	129	IGEBP-6	191	Integrin heta-2	253	SIGIRE
6	4400	68	FOWFOF	130	IGERPIL1	192	LTAC	254	SIPI
7	ALCAM	69	Fodocan	131	IGF-1	193	GRO alpha	255	Sore-1
8	ANGPTI 2	70	Endoglin	132	IGE-2	194	Kremen-1	256	SPARC
9	ANGPTL3	71	Endostatin	133	IL-1 alpha	195	Kremen-2	257	Spinesin
10	Amphiregulio	72	Fotaxin-1	134	II-1 beta	196	Lefty-1	258	TACI
11	Artemin	73	Eotaxin-2	135	IL-1 R4	197	Leptin R	259	TARC
12	AxI	74	Epizeo	136	IL-1 86	198	LEPTIN	260	TCA-3
13	bFGF	75	Epiregulin	137	11-1 89	199	LIF	261	IL-27 Ralp
14	87-1	76	Erythropoletin	138	IL-1 R1	200	LIGHT	262	TECK
15	BAFF R	77	E-Selectin	139	IL-1 R2	201	UX	263	TFPI
16	BCMA	78	FADD	140	11-2	202	LRP-6	264	TGF beta
17	beta-Catenin	79	FAM3B	141	IL-2 R alpha	203	L-Selectin	265	TGF beta
18	BLC	80	Fas	142	IL-2 R beta	204	Lungkine	266	TGF beta :
19	Betacellulin	81	Fas Ligand	143	IL-3	205	Lymphotactin	267	TGF beta F
20	Cardiotrophin-1	82	Fc gamma RIIB	144	IL-3 R alpha	206	LTBR	268	TGF beta P
21	IL-1ra	83	FGF R3	145	IL-3 R beta	207	MAdCAM-1	269	TSP-1
22	CCL28	84	FGF R4	146	IL-4	208	MCP-1	270	CXCL7
23	MIP-1 beta	85	FGF R5 beta	147	IL-4 R	209	MCP-5	271	Tie-2
24	MCP-3	86	FGF-21	148	14-5	210	M-CSF	272	TIMP-1
25	MCP-2	87	Fit-3 Ligand	149	IL-5 R alpha	211	MDC	273	TIMP-2
26	CCR10	88	FLRG	150	IL-6	212	MFG-E8	274	TIMP-4
27	CCR3	89	Follistatin-like 1	151	IL-6 R	213	MFRP	275	TLIA
28	CCR4	90	Fractalkine	152	IL-7	214	MIG	276	TLR1
29	CCR6	91	Frizzled-1	153	IL-7 8 alpha	215	MIP-1 alpha	277	TLR2
30	CCR7	92	Frizzled-6	154	11-9	216	MIP-1 gamma	278	TLR3
31	CCR9	93	Frizzled-7	155	IL-9 R	217	MIP-2	279	TLR4
32	CD11b	94	Galectin-S	156	IL-10	218	MIP-3 aloha	280	TMEFF1
33	CD14	95	GCSF	157	II-10 8 alpha	219	MIP-3 beta	281	TNF RI
34	CRP	96	GDF-1	158	11-11	220	MMP-2	282	TNF RU
35	CD27	97	GDF-3	159	IL-12 p40	221	MMP-3	283	TNF alph
36	CD27 Ligand	98	GDF-5	160	IL-12 p70	222	MMP-9	284	TNF beta
37	CD30 Ligand	99	GDF-8	161	IL-12 R beta 1	223	MMP-12	285	Thrombopoi
38	CD30	100	GDF-9	162	IL-13	224	MMP-14	286	TRAIL
39	CD40	101	GFR alpha-2	163	IL-13 R alpha 2	225	MMP-24	287	TRAIL R2
40	CD40 Ligand	102	GFR alpha-3	164	IL-15	226	NRG3	288	TRANCE
41	Cerberus 1	103	GFR alpha-4	165	IL-15 R alpha	227	Neurturin	289	TREM-1
42	Chordin-Like 2	104	GITR	166	11-16	228	NGFR	290	TROY
43	F3	105	GITR Ligand	167	IL-17A	229	NOV	291	TSLP
44	IL-2 R gamma	106	Glut2	168	IL-17 RB	230	Osteoactivin	292	TSLP R
45	IP-10	107	GM-CSF	169	IL-17C	231	Osteopontin	293	TWEAK
46	Cripto-1	108	Granzyme B	170	IL-17D	232	Osteoprotegerin	294	TWEAK P
47	Crossveinless-2	109	Granzyme D	171	IL-17E	233	OX40 Ligand	295	Ubiquitin
48	Cryptic	110	Granzyme G	172	IL-17F	234	PDGF-C	296	UPAR
49	CSK	111	Gremlin-1	173	IL-17 RA	235	PDGF R alpha	297	Urokinas
50	CTACK	112	GHR	174	IL-17 RC	236	PDGF R beta	298	VCAM-1
51	CTLA-4	113	HGFR	175	IL-17 RD	237	Pentraxin-3	299	VE-Cadher
52	CXCL14	114	HGF	176	IL-18 R alpha	238	PF4	300	VEGF-A
53	CXCL16	115	HVEM	177	IL-20	239	PIGF-2	301	VEGFR1
54	CXCR2	116	ICAM-1	178	IL-20 R alpha	240	Progranulin	302	VEGFR2
55	CXCR3	117	ICAM-2	179	11-21	241	Prolactin	303	VEGFR3
56	CXCR4	118	ICAM-5	180	IL-21 R	242	P-Selectin	304	VEGF-B
57	CXCR6	119	ICK	181	11-22	243	RAGE	305	VEGF-C
58	EGF	120	IFN-alpha/beta 91	182	IL-22BP	244	BANTES	306	VEGED
59	Decorin	121	IFN-alpha/bet= 92	183	11-23	245	BFLM beta	307	WIE-1
60	DKK-1	122	IFN-heta	184	11-23.8	246	Resistin	308	WISD.1
	Dkk-3	128	IFN.ramor	185	11.24	247	\$100410		widt'i
61 1									

Supplementary Fig. S6B





Supplementary Fig. S6G

THP1+PMA







Supplementary Fig. S6J





Supplementary Fig. S8E



3 Biological Replicates

	4T1	4T1		4T1		B16F10	B16F10	B16F10	
NXP900 (nM)	- 10 30 100	- 10 30 100		- 10 30 100	NXP900 (nM)	- 10 30 100	- 10 30 100	- 10 30 100	
p-SFK (60)			70 55		p-SFK (60)				70 55
р-АКТ (60)	3855		70 55	38 20 ⁻⁷⁰ -5	p-AKT (60)				70 55
p-p70S6K (70,85)			100 70	-100 -70	p-p70S6K (70,85)				100 70
p-MEK (45)			-40	 _8	р- МЕК (45)				-4
p-ERK (42,44)	====		- 55 - 40	-55 	p-ERK (42,44)				-55 -40
p-YAP (78) p-TAZ (55)			70 55		p-YAP (78) p-TAZ (55)		55 55		- 55 -
p-Cortactin (80,85)			100 70	100 70	p-Cortactin (80,85)		-100 -00 -00		100 70
GAPDH (37)			-35	 _3	GAPDH (37)		<u>-</u> 3		- 35



Supplementary Fig. S8F

3 Biological Replicates



Supplementary Fig. S6I



