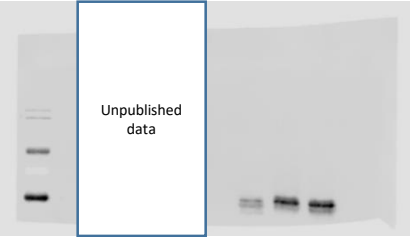


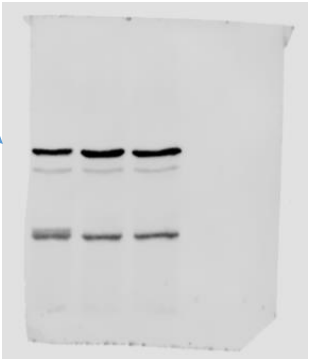
- Figure 4 : cyclines

CycB1

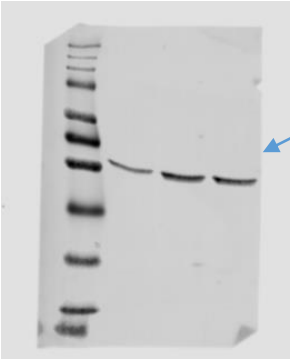
Cyclin B1



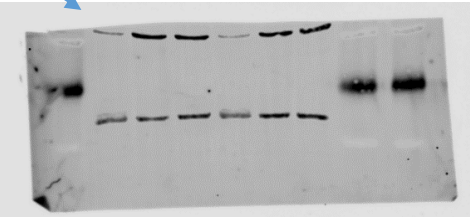
CycB1



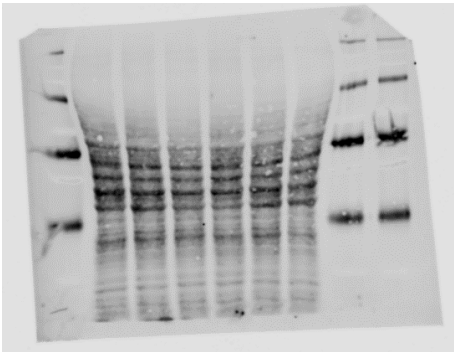
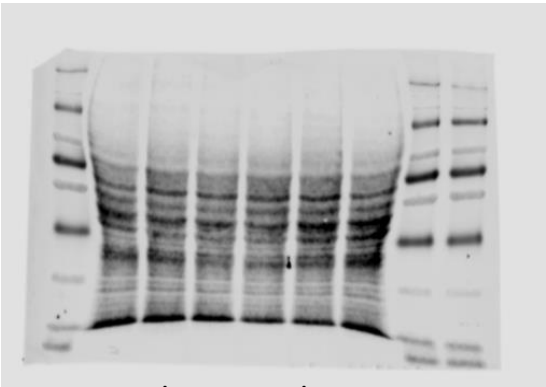
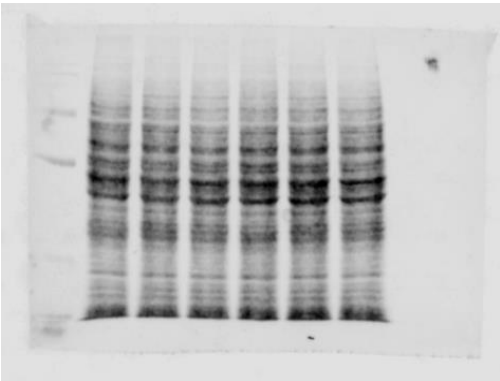
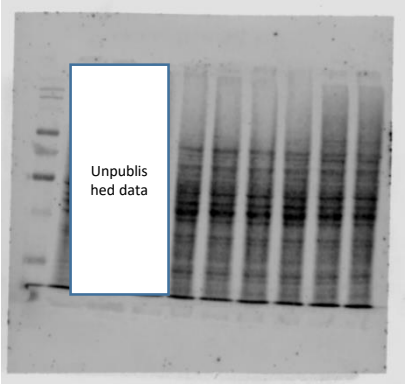
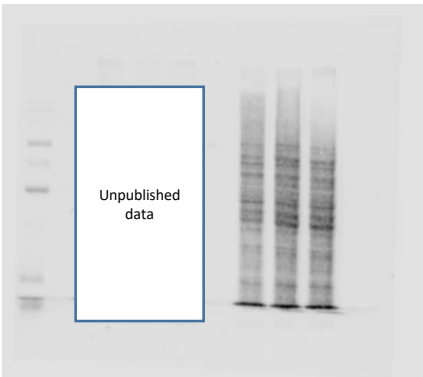
CycB1



CycB1



Total protein



EAPB02303
IC50 24h
EAPB02303
5xIC50 24h

- + -
- - + - - +

- + - - + -
- - + - - +

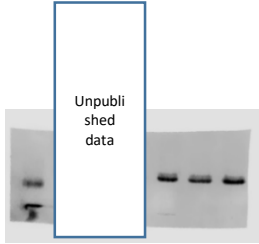
- + - - + -
- - + - - +

- + - - + -
- - + - - +

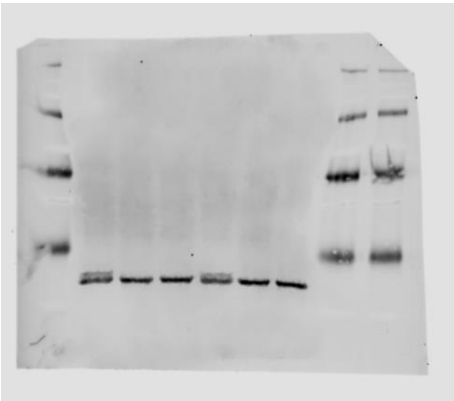
Cyclin B1	Untreated	EAPB02303 IC50 24h	EAPB02303 5*IC50 24h
n1	1	1,8	2,3
n2	1	1,03	2
n3	1	1,74	1,8
n4	1	1,8	1,8
N5 (mean of both technic replicates)	1	3,8	4,5

cdk1 total

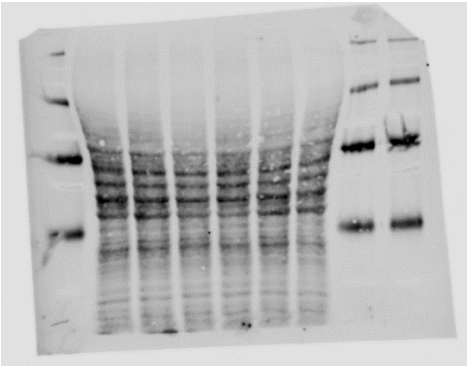
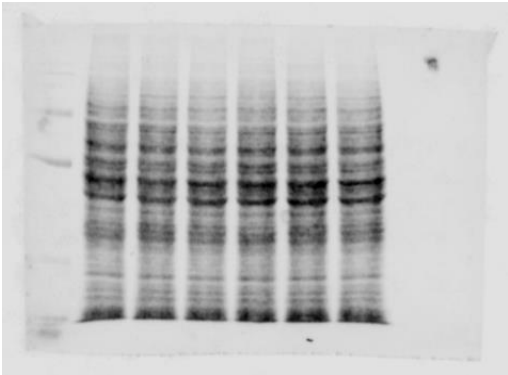
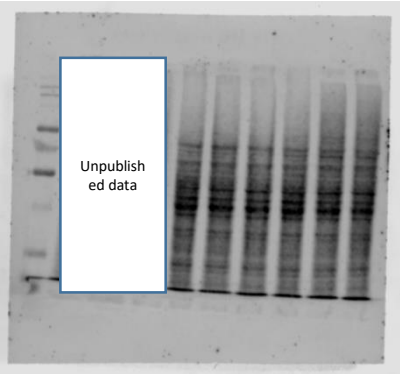
cdk1 total



cdk1



Total protein



EAPB02303
IC50 24h
EAPB02303
5xIC50 24h

- + -

- - +

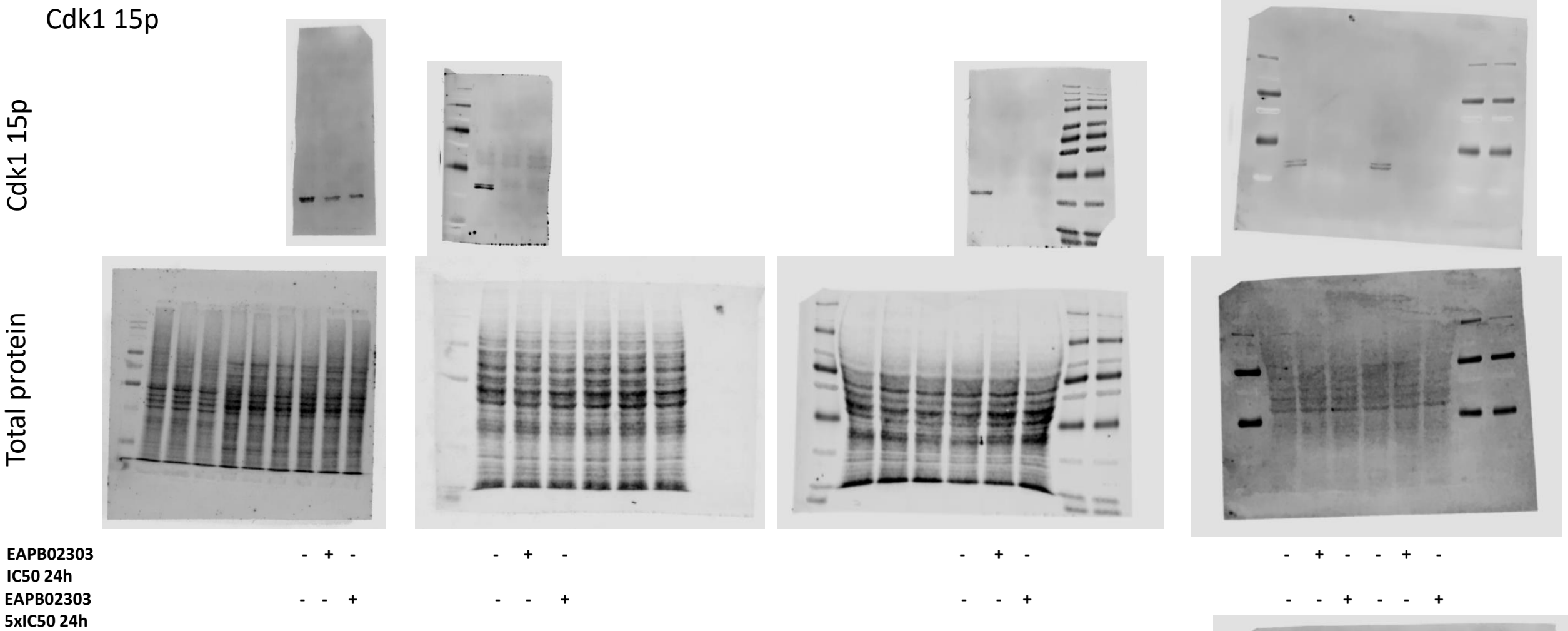
- + -

- - +

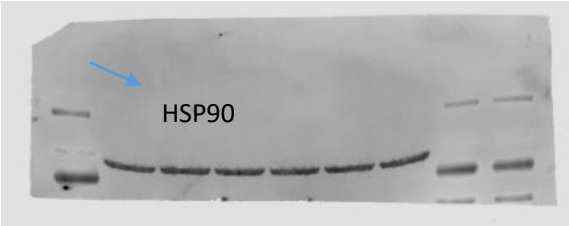
- + - - + -

- - + - - +

cdk1 total	Untreated	EAPB02303 IC50 24h	EAPB02303 5*IC50 24h
n1	1	0,9	1,2
n2	1	0,8	0,9
n3 (mean of both technic replicates)	1	0,8	1



cdk1-15p	Untreated	EAPB02303 IC50 24h	EAPB02303 5*IC50 24h
n1	1	0,4	0,4
n2	1	0,07	0,04
n3	1	0,06	0,08
n4 (mean of both technic replicates)	1	0,05	0,05



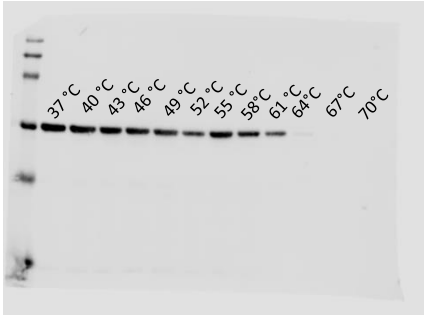
Used as supplemental loading control in regard to total protein stain low signal

- Figure 4 Cellular Thermal shift assay

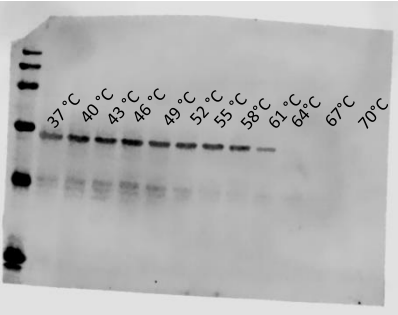
CETSA TUBB

n=1

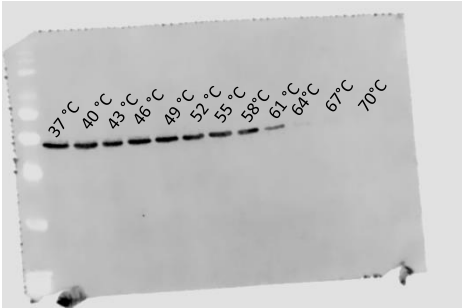
Untreated



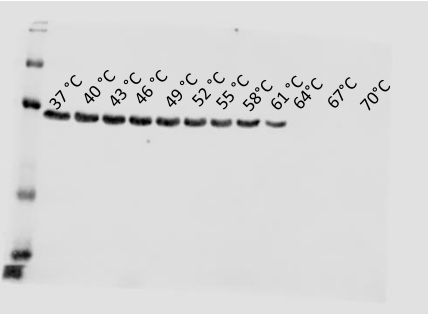
n=2



n=3

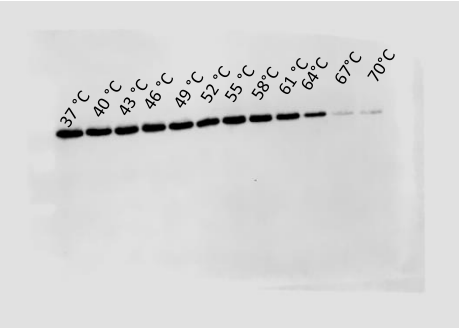
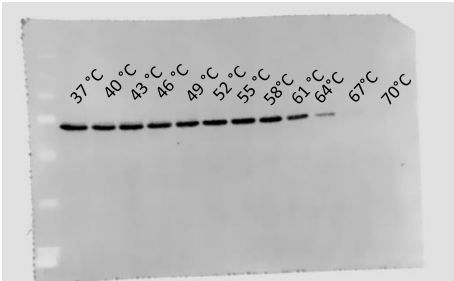
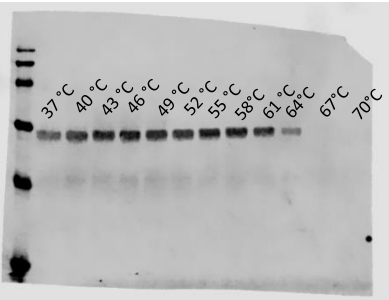
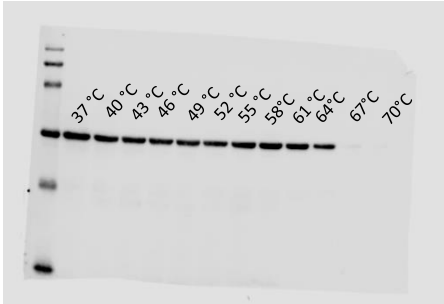


n=4



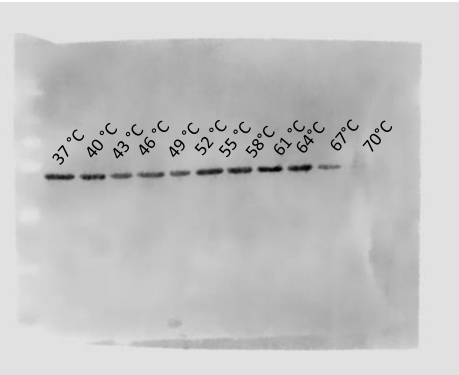
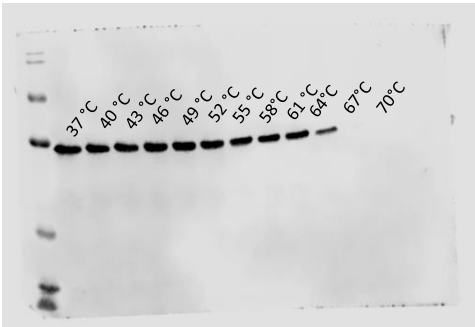
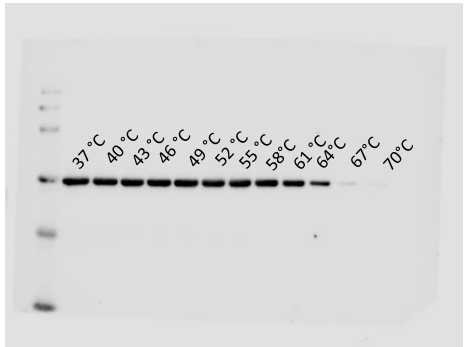
EAPB02303

20μM 3h



Paclitaxel

20μM 3h



CETSA TUBB –
Quantifications

	n1			n2			n3			n4		
	NT	EAPB	Pacli	NT	EAPB	Pacli	NT	EAPB	Pacli	NT	EAPB	Pacli
37°C												
40°C	119,8	129,5	105,0	82,7	86,9		119,0	116,1	116,8	105,3	111,5	127,9
43°C	97,3	90,5	94,8	108,5	97,9		103,2	82,6	99,7	98,0	99,5	101,8
46°C	82,8	80,0	100,2	108,9	115,2		77,8	101,3	83,5	96,8	88,9	70,3
49°C	72,8	71,9	102,8	107,6	116,9		106,9	85,4	102,8	93,6	87,6	84,6
52°C	63,5	68,6	102,6	84,7	110,6		101,4	83,4	114,1	87,2	91,3	67,4
55°C	43,8	67,1	86,8	83,9	105,4		79,2	92,6	90,1	72,6	77,4	134,8
58°C	76,0	95,7	89,6	84,3	120,3		74,5	98,9	76,1	58,7	78,3	112,9
61°C	55,9	109,0	89,8	71,2	118,9		66,2	86,2	80,0	70,5	86,6	131,9
64°C	33,3	93,3	75,7	27,3	90,4		27,8	53,1	83,5	41,9	71,2	121,9
67°C	1,9	60,5	42,3	0,0	32,8		0,0	16,0	35,0	0,0	39,2	39,6
70°C	0,0	1,5	2,8	0,0	0,0		0,0	0,0	0,0	0,0	4,2	0,0
	0,0	0,0	0,0	0,0	0,0		0,0	0,0	0,0	0,0	4,5	0,0

Expressed as the percentage of folded protein normalized uppon the three first temperatures of the T° range

CETSA TUBB – Statistical testing

EC50 T°

EC50 has been estimated manually by drawing the graphs, fitting linear regressin model and reporting the T° at 50% folded protein

EC50 (T°)	NT	PACLI	EAPB
	58,5	63,8	64,2
	59,3		63,1
	58,7	63	61,2
	59,5	63,7	63

Statistical testing :

Normal distrubution

Untreatd	shapiro.test(c(58.5,59.3,58.7,59.5))	p=0.4877
Paclitaxel	shapiro.test(c(63.8,63,63.7))	p=0.2196
EAPB02303	shapiro.test(c(64.2,63.1,61.2,63))	p=0,6152

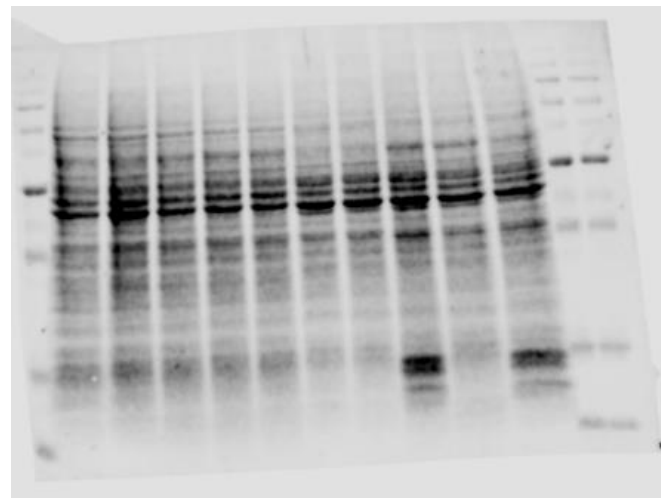
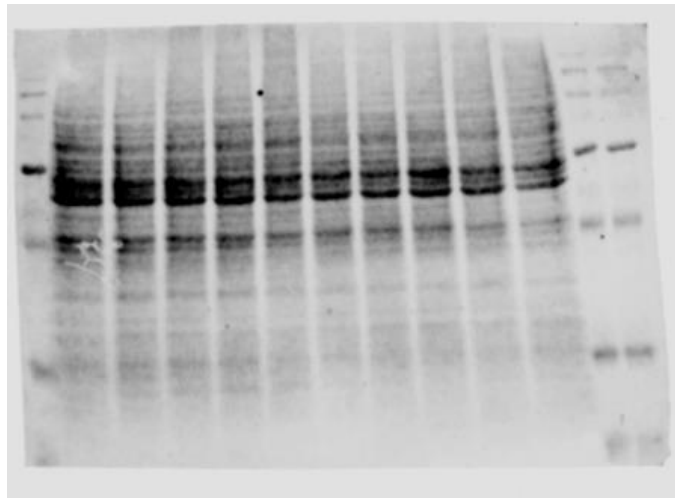
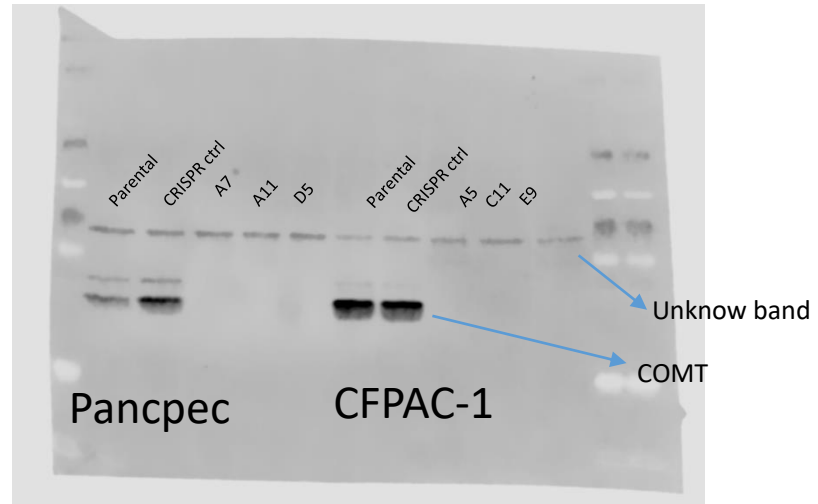
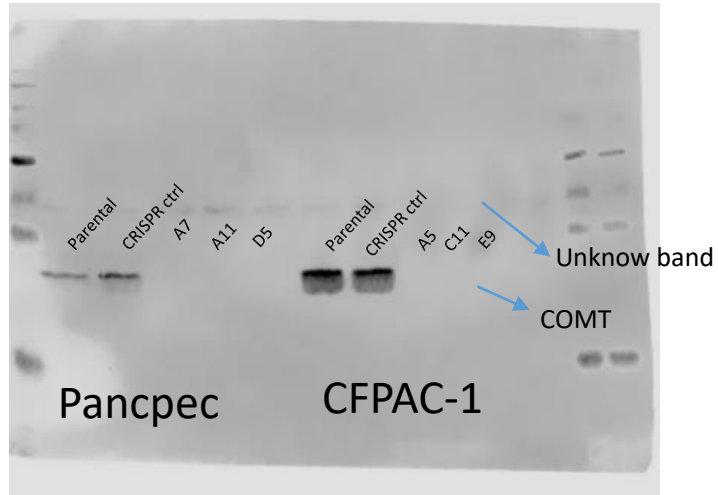
Variance

Untreatd vs Paclitaxel	var.test(c(58.5,59.3,58.7,59.5),c(63.8,63,63.7))	p=0,974
Untreated vs EAPB02303	var.test(c(58.5,59.3,58.7,59.5),c(64.2,63.1,61.2,63))	p=0,1496

Student

Untreated vs EAPB02303	t.test(c(58.5,59.3,58.7,59.5),c(64.2,63.1,61.2,63),var.equal=TRUE,alternative="two.sided")	p = 0.001124315602624.
Untreated vs Paclitaxel	t.test(c(58.5,59.3,58.7,59.5),c(63.8,63,63.7),var.equal=TRUE,alternative="two.sided")	p = 7.5132863729267E-5

- Figure 5 COMT^{-/-} models



- Figure 5 ITDR Cellular Thermal Shift Assay

ITDR CETSA TUBB on CFPAC-1 COMT ^{-/-} (clone E9)

$n=1$

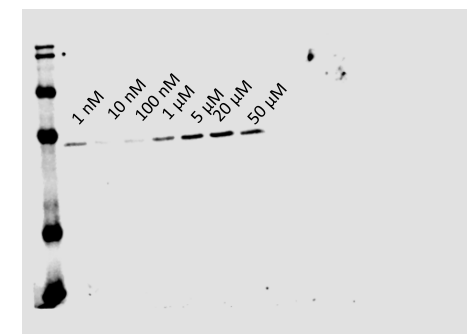
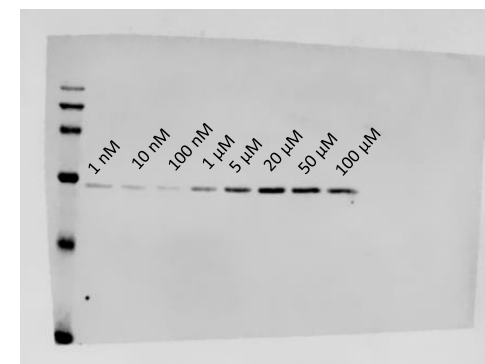
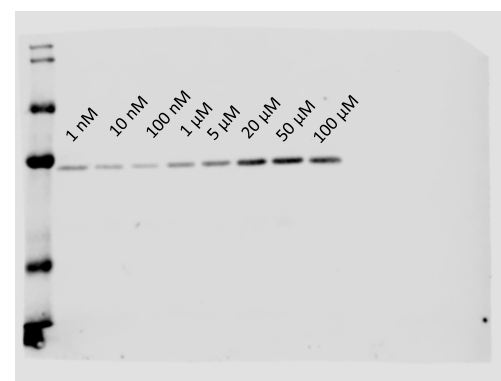
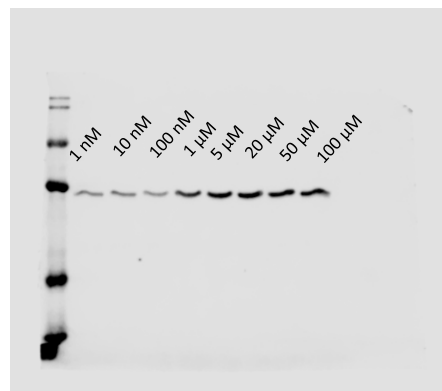
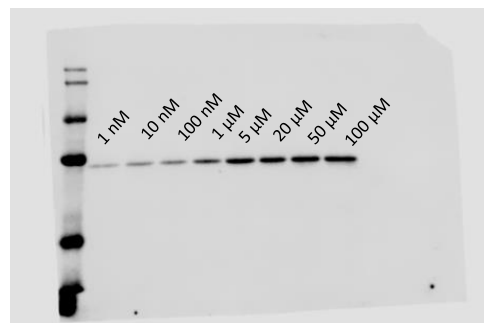
$$n=2$$

n=3

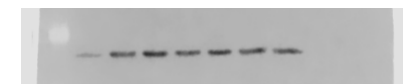
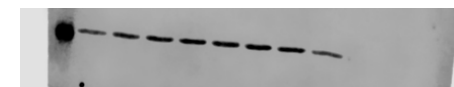
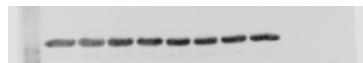
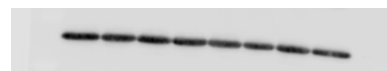
n=4

n=5

EAPB04303

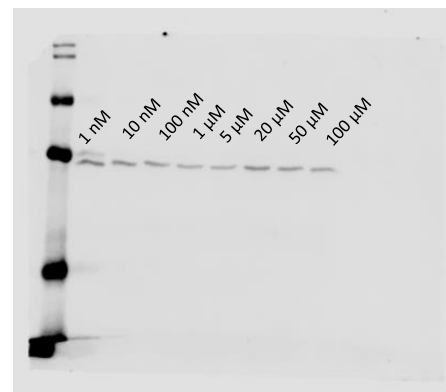
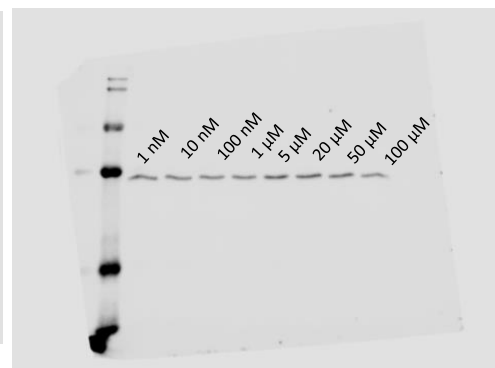
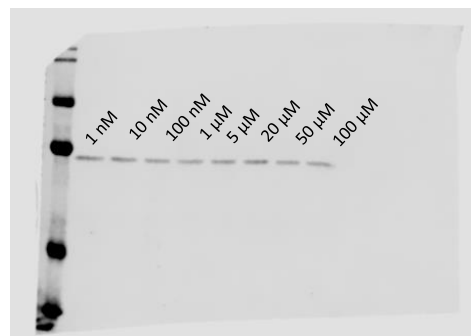


GAPDH



EAPB02303

GAPDH



ITDR CETSA TUBB – Quantification and EC50 determination for EAPB04303

EAPB04303	Signal				
	n1	n2	n3	n4	n5
1 nM	11,2	45,0	23,8	removed	removed
10 nM	16,7	40,2	16,9	7,5	10,3
100 nM	18,5	23,5	11,7	1,6	11,2
1 µM	37,3	63,9	27,9	21,6	59,4
5µM	85,0	85,7	32,5	58,8	97,8
20 µM	86,9	102,2	106,2	123,4	116,9
50 µM	92,9	99,0	112,8	100,7	83,1
100 µM	107,1	101,0	87,2	99,3	NA
EC50	1,9	1,5	5,7	5,0	1,8

All values normalized to GAPDH intensity and expressed as percentage of the mean of the two highest concentrations (plateau)
EC50 were determined graphically after plotting of the percentage as a function of concentration

EC50 = 3 ± 2 µM

ITDR CETSA TUBB – Quantification and EC50
determination for EAPB04303

EAPB02303	signal		
	n1	n2	n3
1 nM	17,8	30,7	16,5
10 nM	16,7	26,2	12,8
100 nM	11,9	23,4	8,6
1 µM	9,5	23,5	6,1
5µM	10,8	30,8	6,6
20 µM	14,4	30,1	13,0
50 µM	9,7	25,1	10,5
100 µM	10,7	15,5	8,8
EC50	NA		

*All values normalized to GAPDH intensity and expressed as percentage of the mean of the two highest concentrations (plateau)
EC50 were determined graphically after plotting of the percentage as a function of concentration*

EC50 impossible to fit