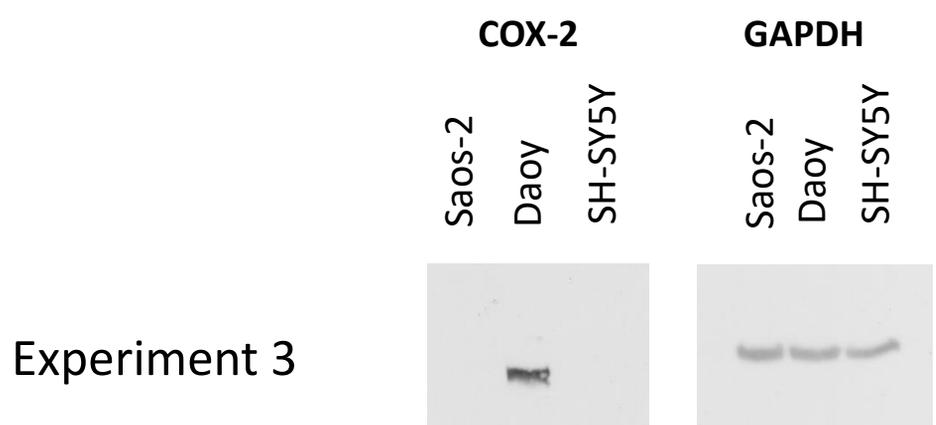
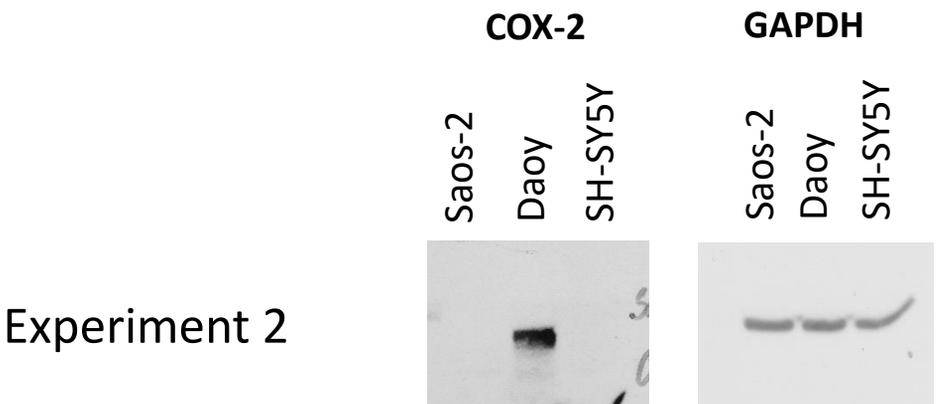
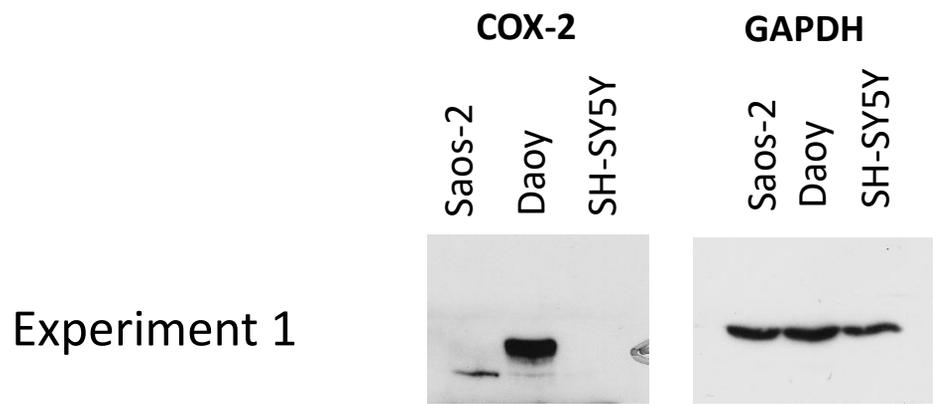


SUPPLEMENT 1A



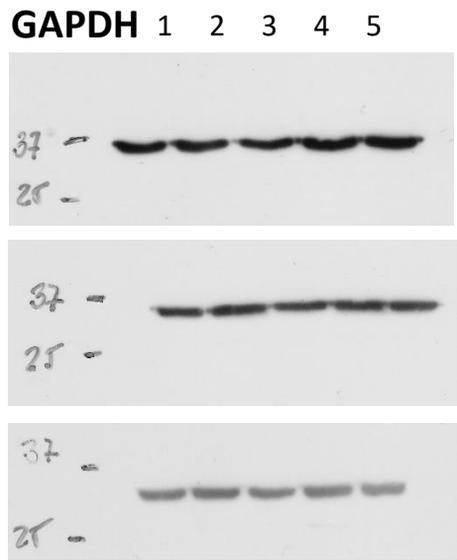
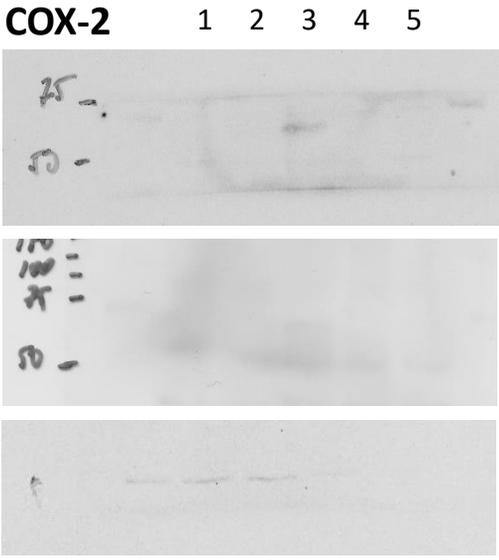
SUPPLEMENT 1A : COX-2 levels in untreated cell lines.

Western blot analysis of the endogenous COX-2 levels in untreated cell lines. GAPDH served as a loading control. The experiments were repeated three times.

SUPPLEMENT 1B

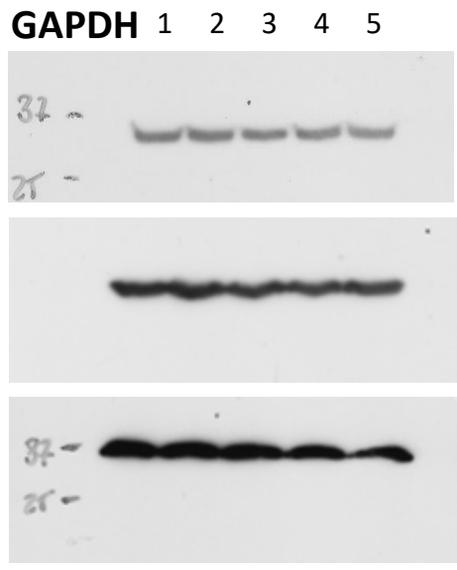
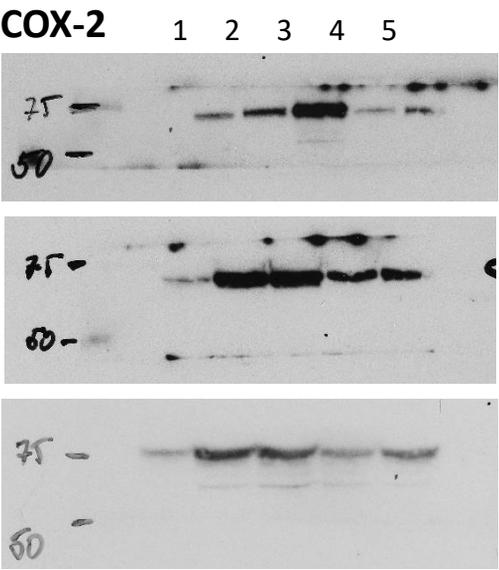
Saos-2

- 1 – control
- 2 – DpC 5 μM
- 3 – DpC 20 μM
- 4 – Dp44mT 5 μM
- 5 – Dp44mT 20 μM



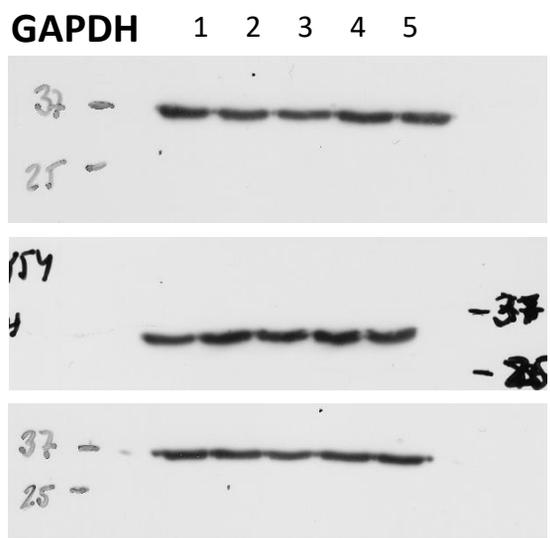
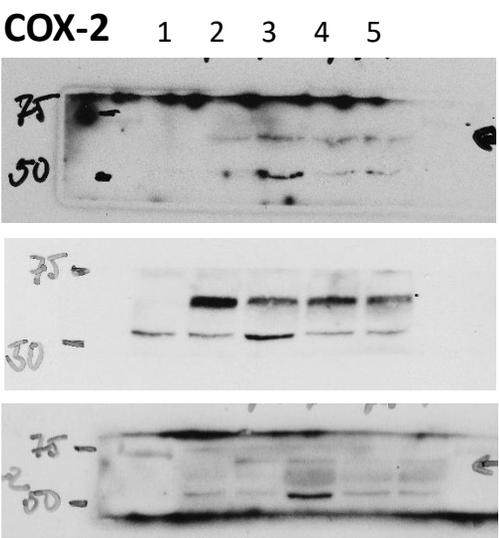
Daoy

- 1 – control
- 2 – DpC 5 μM
- 3 – DpC 10 μM
- 4 – Dp44mT 5 μM
- 5 – Dp44mT 20 μM



SH-SY5Y

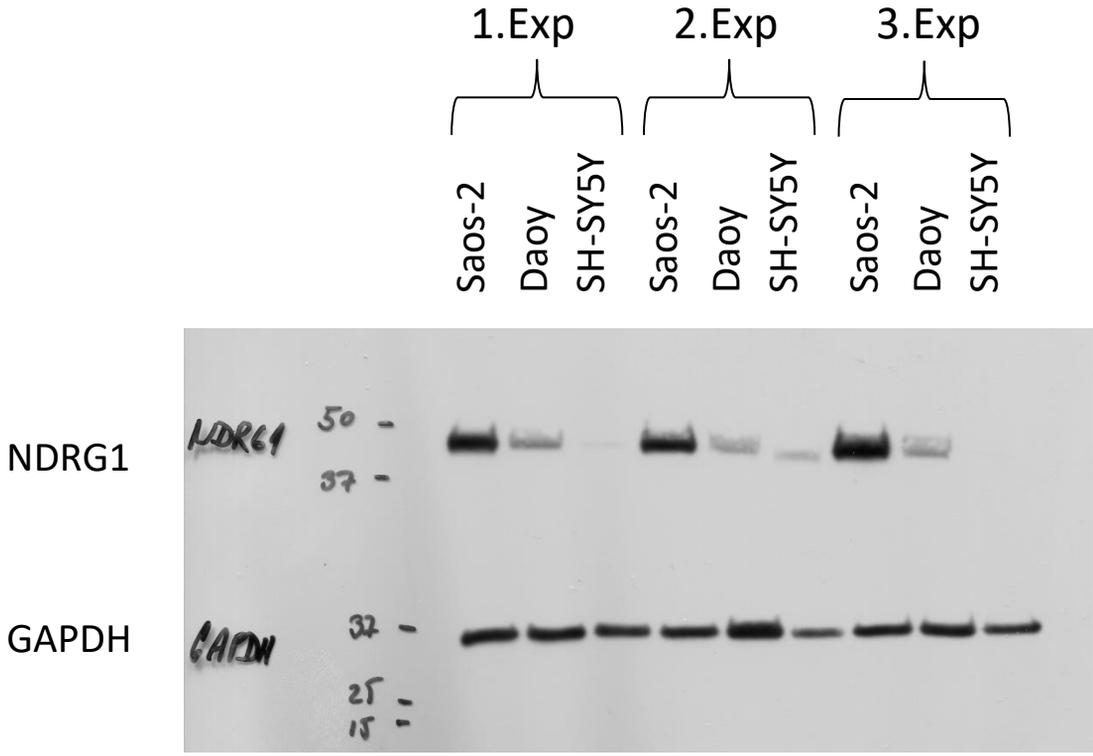
- 1 – control
- 2 – DpC 5 μM
- 3 – DpC 20 μM
- 4 – Dp44mT 5 μM
- 5 – Dp44mT 20 μM



SUPPLEMENT 1B: COX-2 levels after the treatment with thiosemicarbazones.

Western blot analysis of the COX-2 levels in Saos-2, Daoy and SH-SY5Y cells after 24 h of incubation with DpC or Dp44mT. GAPDH served as a loading control. The experiments were repeated three times.

SUPPLEMENT 2A

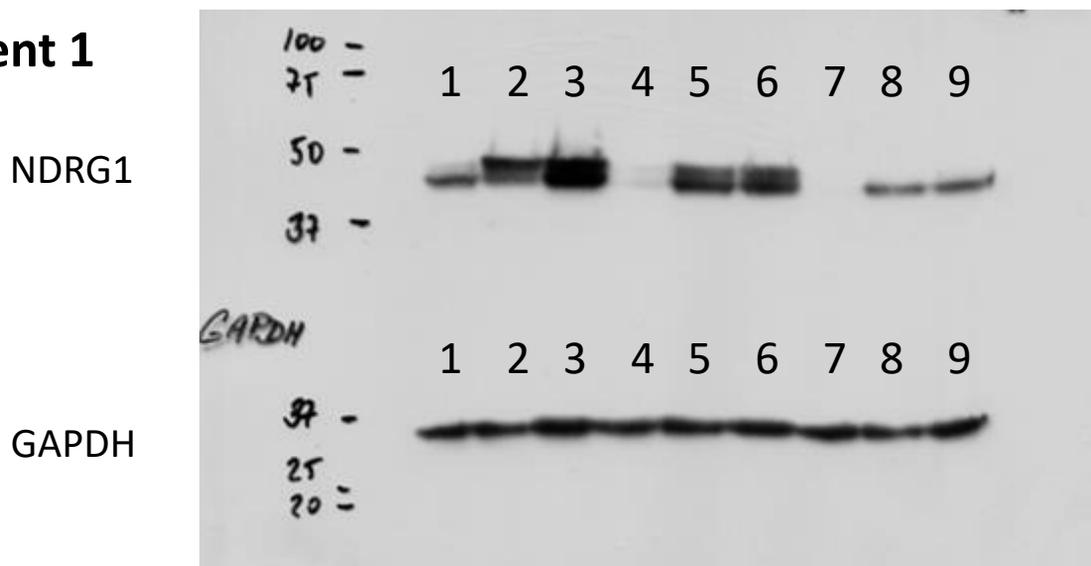


SUPPLEMENT 2A: NDRG1 levels in untreated cell lines.

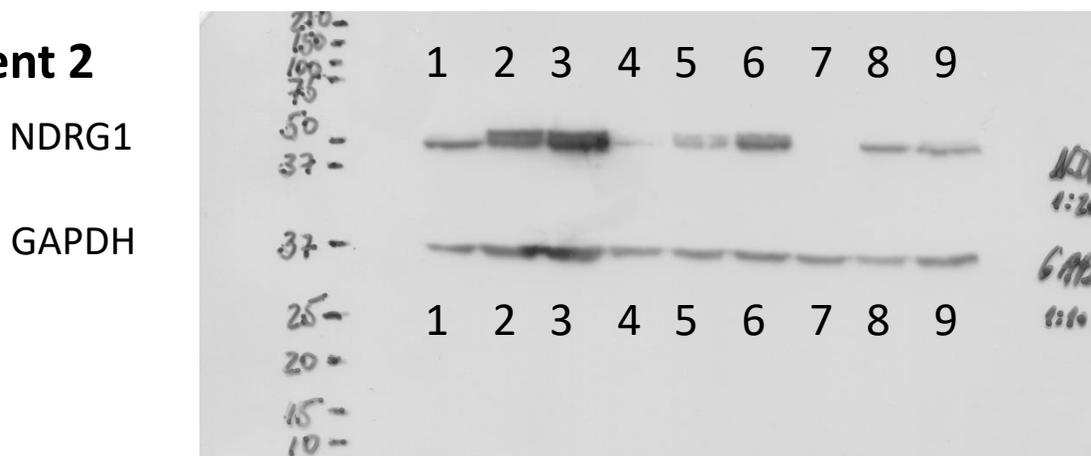
Western blot analysis of the endogenous NDRG1 levels in untreated cell lines. GAPDH served as a loading control. The experiment was performed in biological triplicate.

SUPPLEMENT 2B

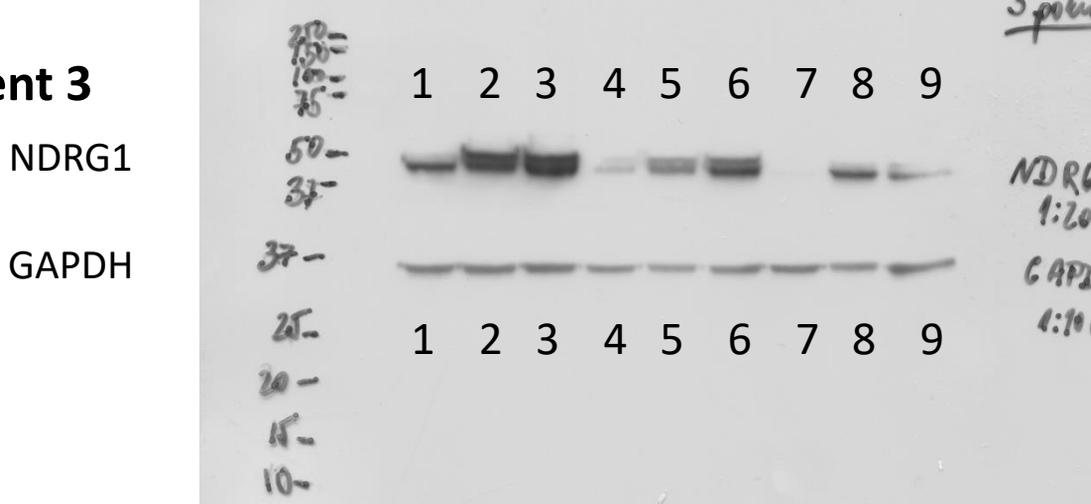
Experiment 1



Experiment 2



Experiment 3



1 – Saos-2: control 2 – Saos-2: DpC 20 μ M 3 – Saos-2: Dp44mT 20 μ M
4 – Daoy: control 5 – Daoy: DpC 10 μ M 6 – Daoy: Dp44mT 20 μ M
7 – SH-SY5Y: control 8 – SH-SY5Y: DpC 20 μ M 9 – SH-SY5Y: Dp44mT 20 μ M

SUPPLEMENT 2B: NDRG1 levels after the treatment with thiosemicarbazones.

Western blot analysis of the NDRG1 levels in Saos-2 cells, Daoy and SH-SY5Y cells after 24 h of incubation with DpC or Dp44mT. GAPDH served as a loading control. The experiments were repeated three times.

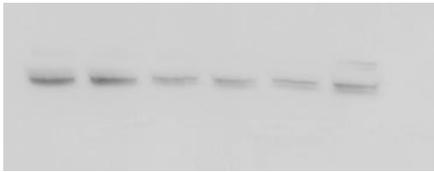
SUPPLEMENT 3

Saos-2

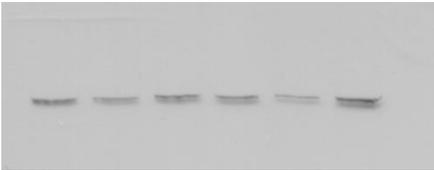
control
CX
DpC
Dp44mT
DpC+CX
Dp44mT+CX

Exp. 1

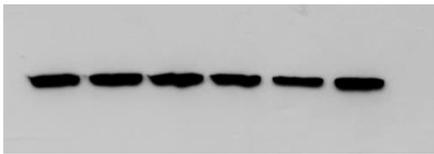
p-AKT



AKT

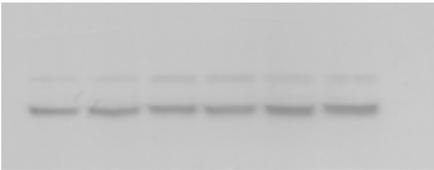


GAPDH

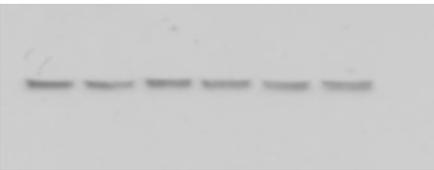


Exp. 2

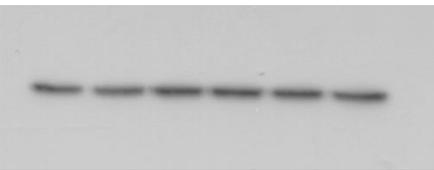
p-AKT



AKT



GAPDH

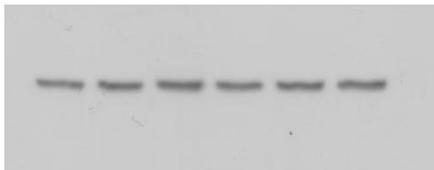


Exp. 3

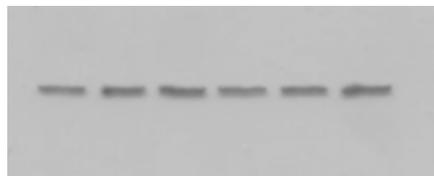
p-AKT



AKT



GAPDH

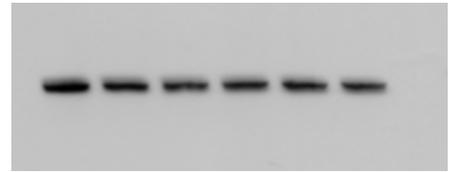


Daoy

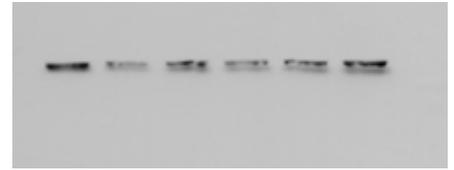
control
CX
DpC
Dp44mT
DpC+CX
Dp44mT+CX

Exp. 1

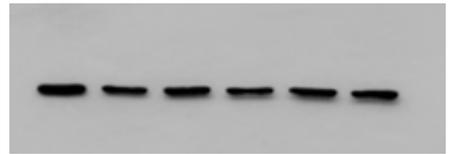
p-AKT



AKT

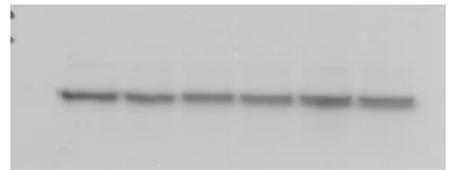


GAPDH

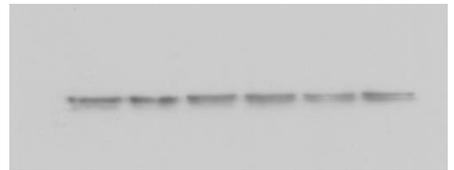


Exp. 2

p-AKT



AKT

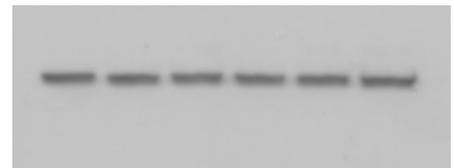


GAPDH

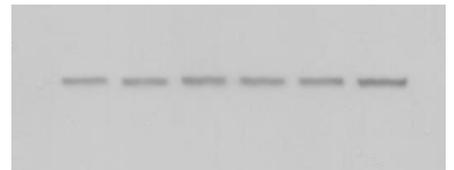


Exp. 3

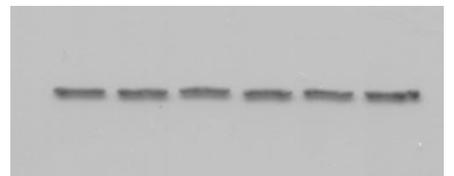
p-AKT



AKT



GAPDH

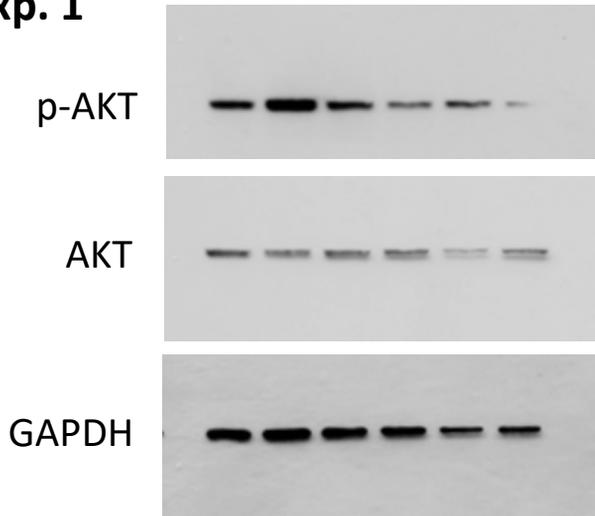


SUPPLEMENT 3

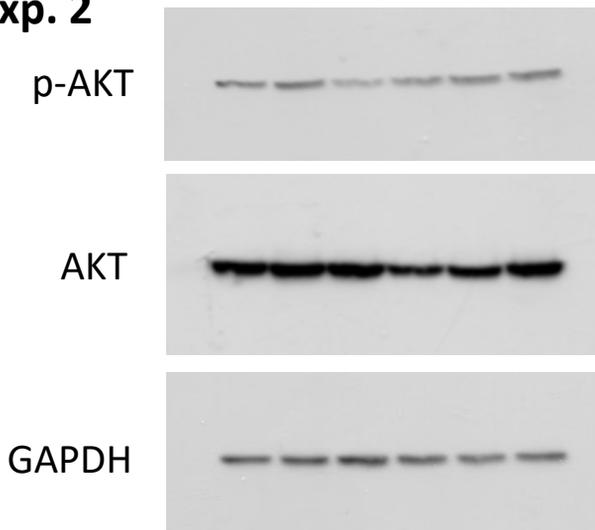
SH-SY5Y

control
CX
DpC
Dp44mT
DpC+CX
Dp44mT+CX

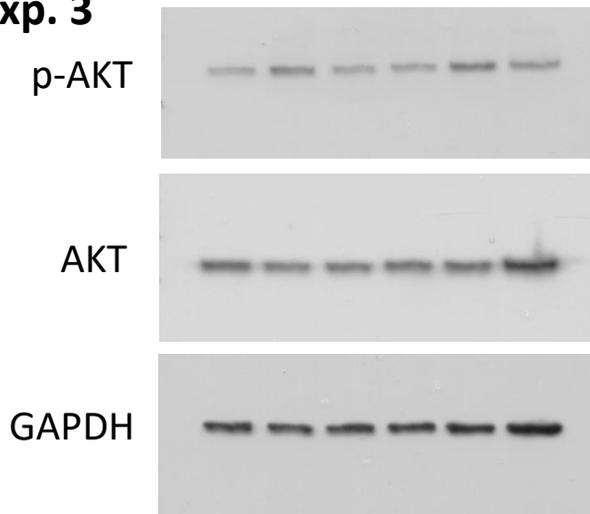
Exp. 1



Exp. 2



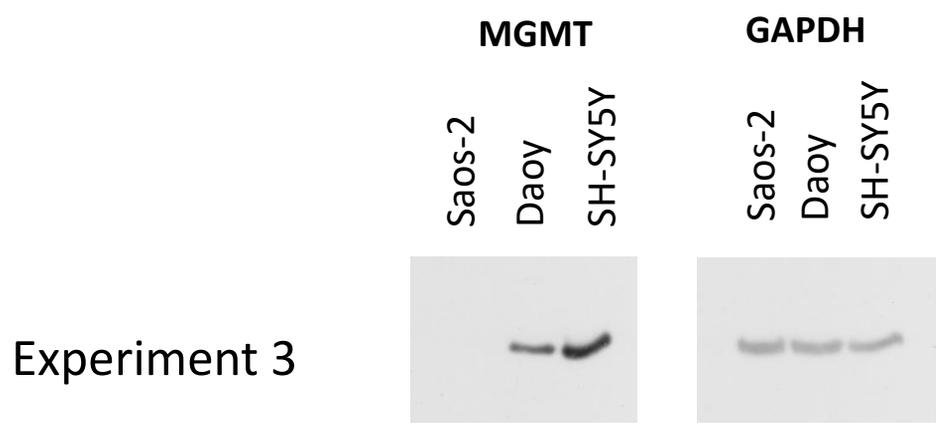
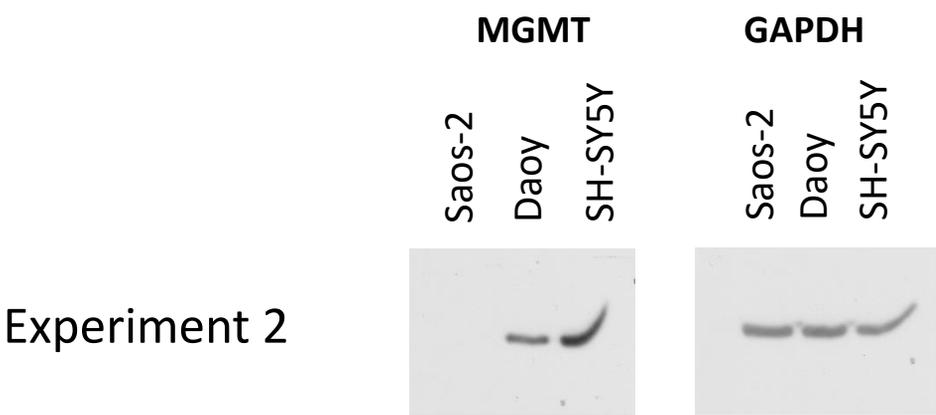
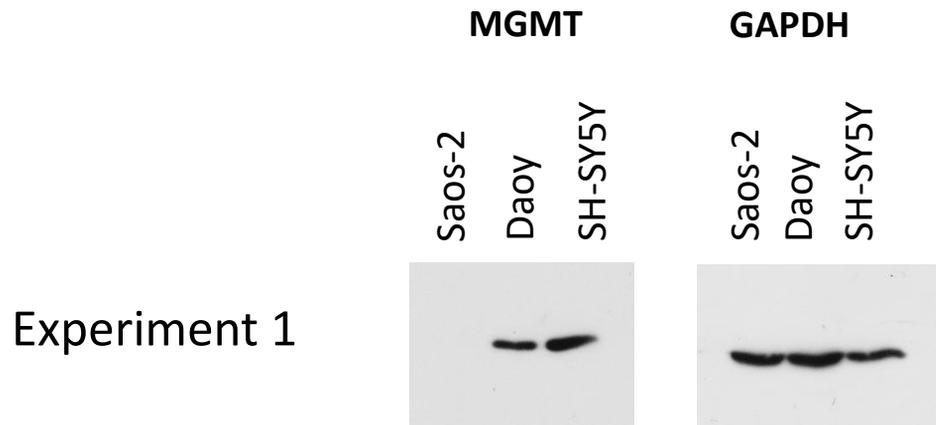
Exp. 3



SUPPLEMENT 3: p-AKT and AKT levels after 2 h of the treatment with the IC50 doses of CX, DpC, Dp44mT and their combinations.

Western blot analysis of the phospho-AKT (p-AKT) and AKT levels in Saos-2, Daoy and SH-SY5Y cells after 2 h of incubation with the IC50 doses of CX, DpC, Dp44mT, DpC+CX or Dp44mT+CX. GAPDH served as a loading control. The experiments were performed in biological triplicates.

SUPPLEMENT 4A



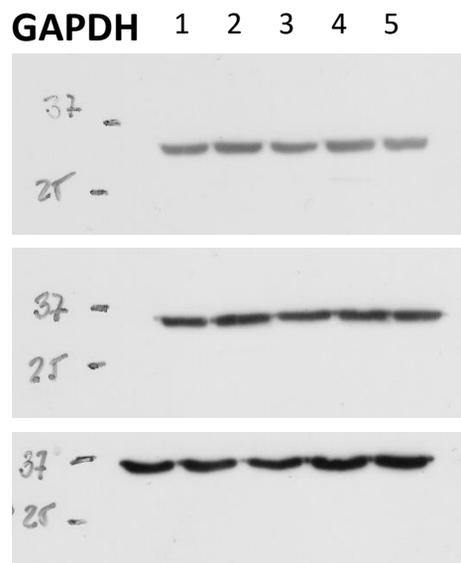
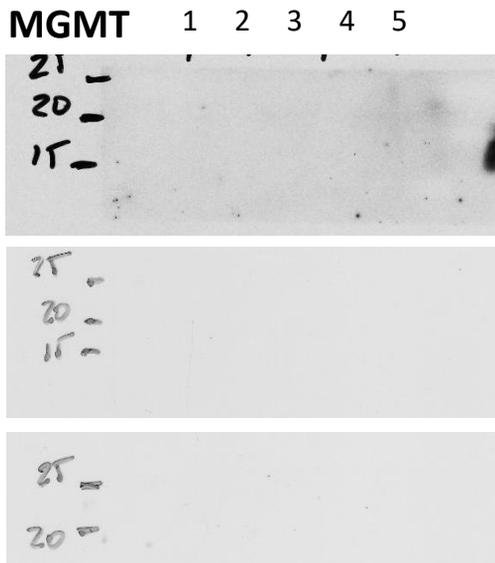
SUPPLEMENT 4A: MGMT levels in untreated cell lines.

Western blot analysis of the endogenous MGMT levels in untreated cell lines. GAPDH served as a loading control. The experiments were repeated three times.

SUPPLEMENT 4B

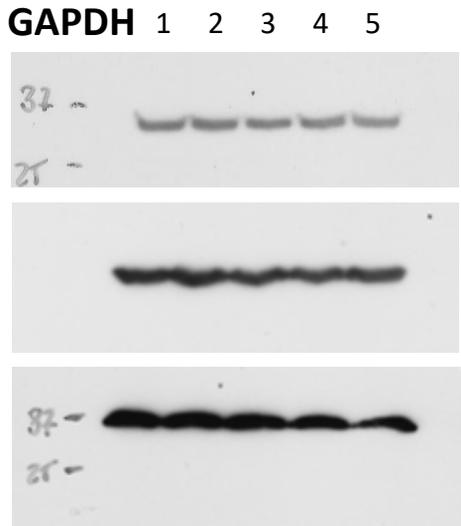
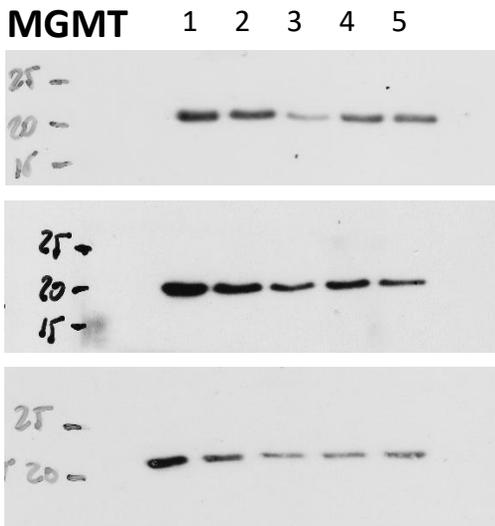
Saos-2

- 1 – control
- 2 – DpC 5 μ M
- 3 – DpC 20 μ M
- 4 – Dp44mT 5 μ M
- 5 – Dp44mT 20 μ M



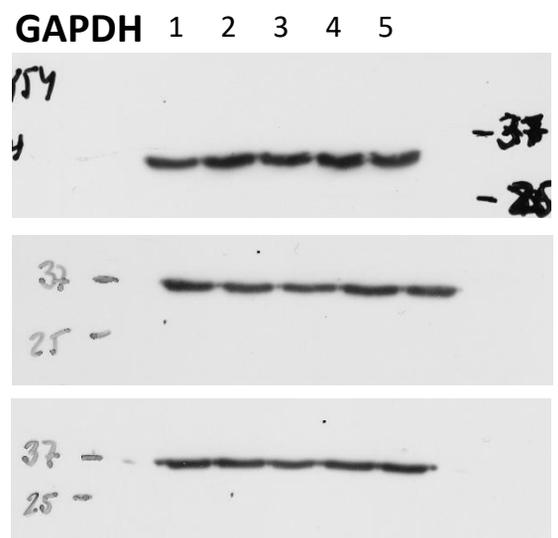
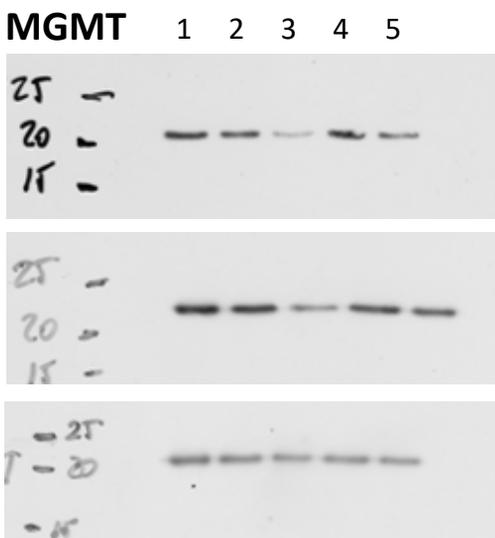
Daoy

- 1 – control
- 2 – DpC 5 μ M
- 3 – DpC 10 μ M
- 4 – Dp44mT 5 μ M
- 5 – Dp44mT 20 μ M



SH-SY5Y

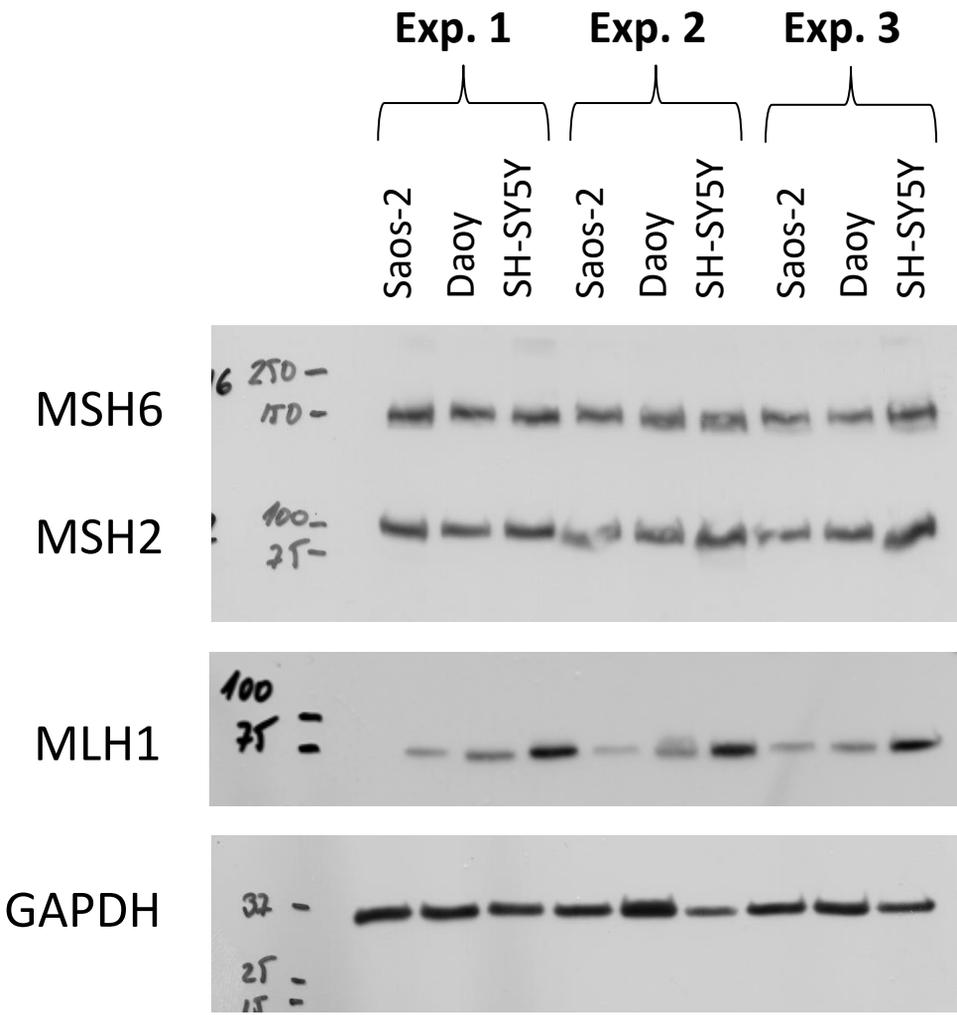
- 1 – control
- 2 – DpC 5 μ M
- 3 – DpC 20 μ M
- 4 – Dp44mT 5 μ M
- 5 – Dp44mT 20 μ M



SUPPLEMENT 4B: MGMT levels after the treatment with thiosemicarbazones.

Western blot analysis of the MGMT levels in Saos-2, Daoy and SH-SY5Y cells after 24 h of incubation with DpC or Dp44mT. GAPDH served as a loading control. The experiments were repeated three times.

SUPPLEMENT 5A

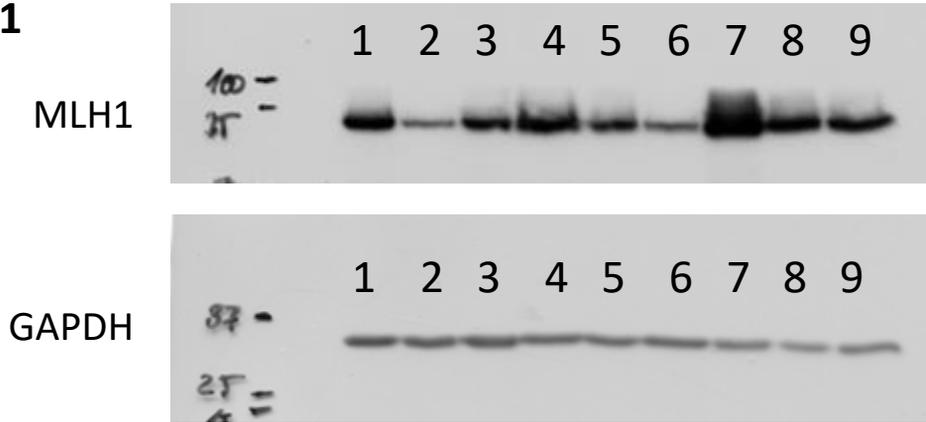


SUPPLEMENT 5A: Levels of the mismatch repair proteins in untreated cell lines.

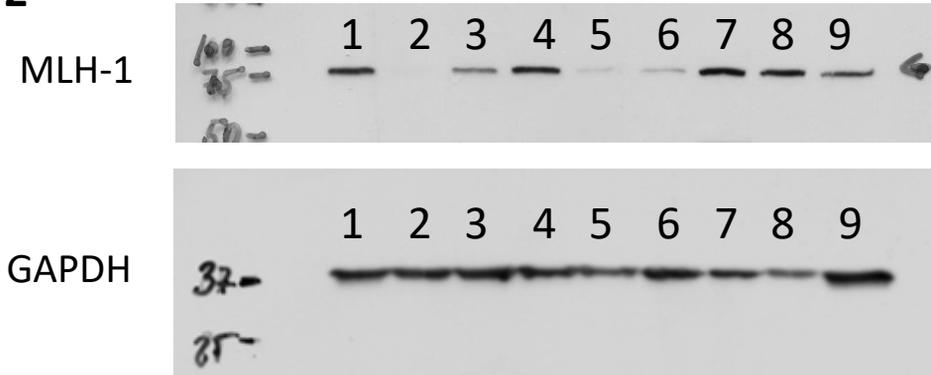
Western blot analysis of the endogenous MLH1, MSH2 and MSH6 levels in untreated cell lines. GAPDH served as a loading control. The experiment was performed in biological triplicates.

SUPPLEMENT 5B

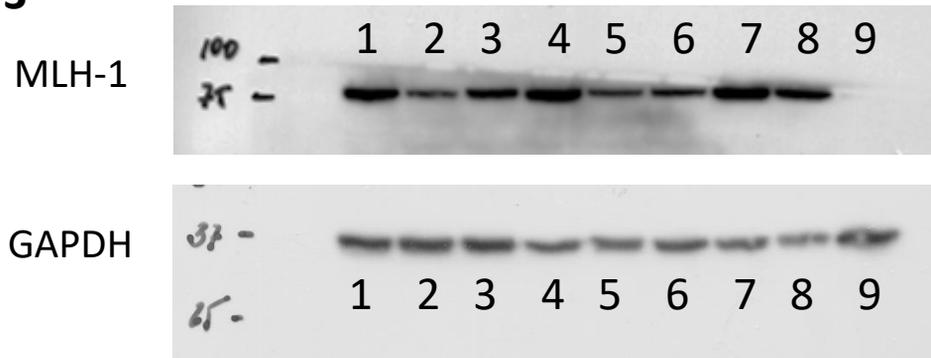
Experiment 1



Experiment 2



Experiment 3



1 – Saos-2: control
4 – Daoy: control
7 – SH-SY5Y: control

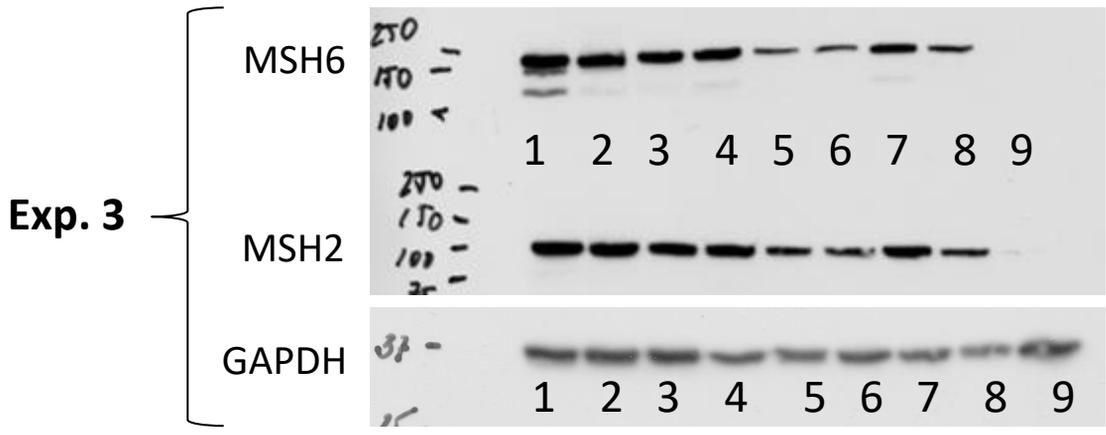
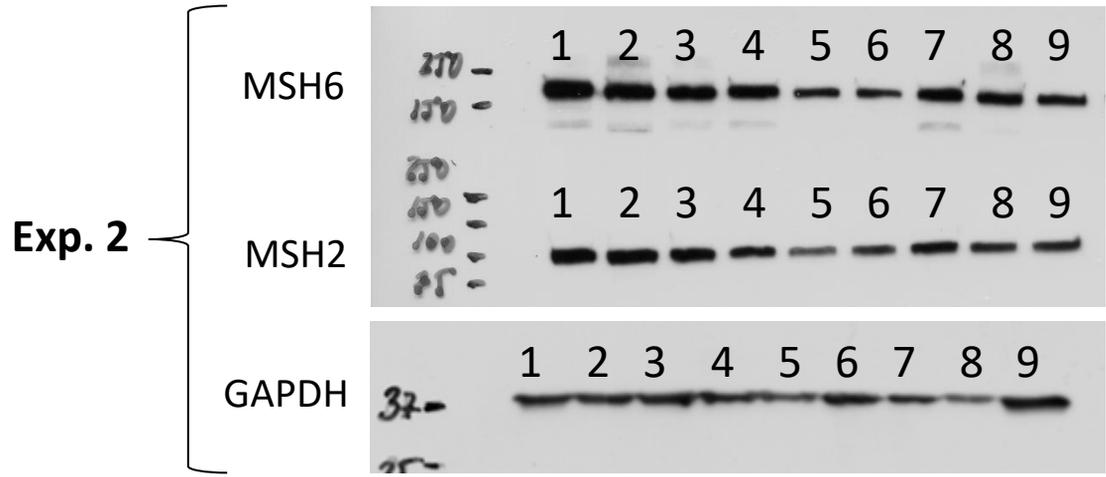
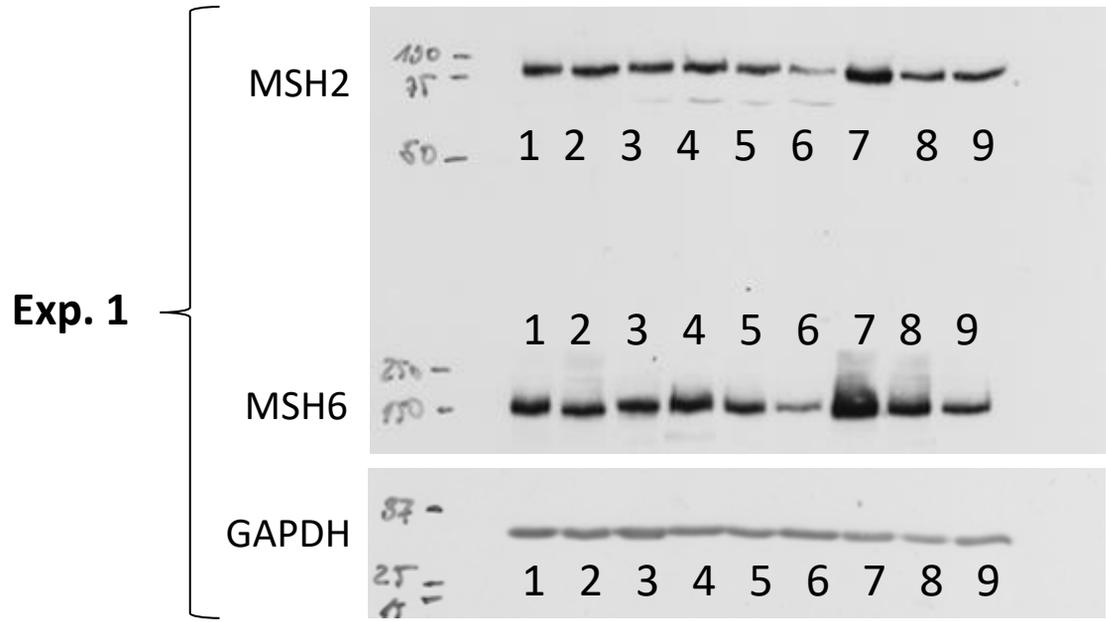
2 – Saos-2: DpC 20 μM
5 – Daoy: DpC 10 μM
8 – SH-SY5Y: DpC 20 μM

3 – Saos-2: Dp44mT 20 μM
6 – Daoy: Dp44mT 20 μM
9 – SH-SY5Y: Dp44mT 20 μM

SUPPLEMENT 5B: MLH1 levels after the treatment with thiosemicarbazones

Western blot analysis of the MLH1 levels in Saos-2, Daoy and SH-SY5Y cells after 24 h of incubation with DpC or Dp44mT. GAPDH served as a loading control. The experiments were repeated three times.

SUPPLEMENT 5C

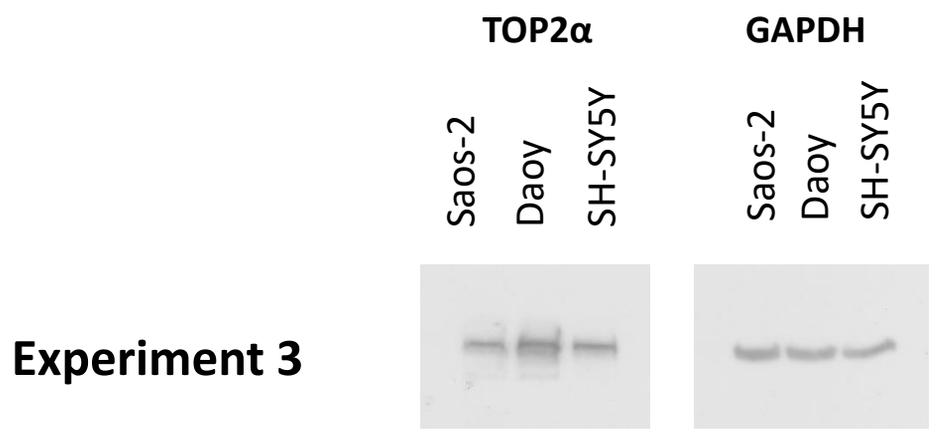
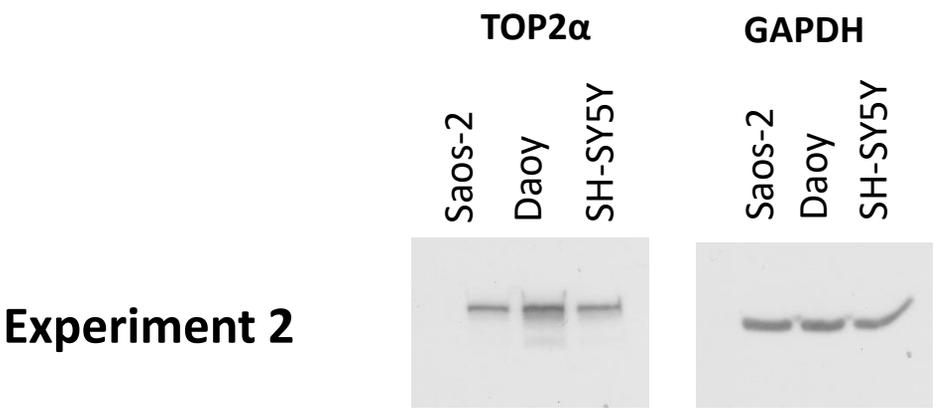
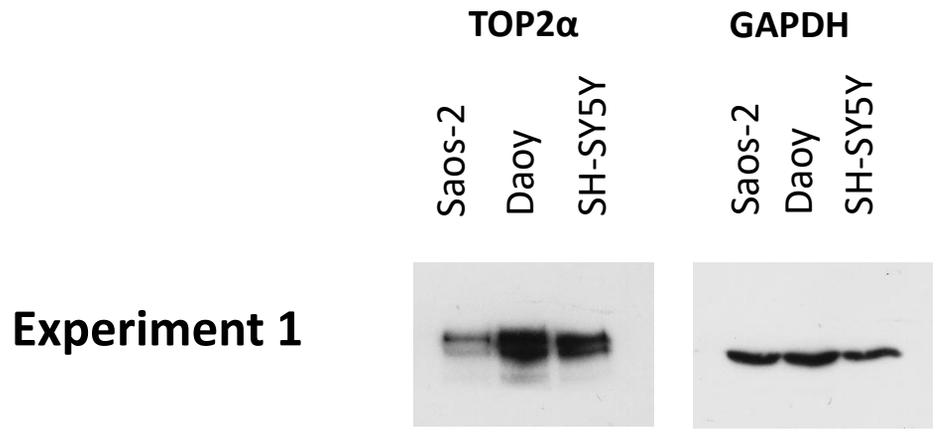


- 1 – Saos-2: control
- 2 – Saos-2: DpC 20 μM
- 3 – Saos-2: Dp44mT 20 μM
- 4 – Daoy: control
- 5 – Daoy: DpC 10 μM
- 6 – Daoy: Dp44mT 20 μM
- 7 – SH-SY5Y: control
- 8 – SH-SY5Y: DpC 20 μM
- 9 – SH-SY5Y: Dp44mT 20 μM

SUPPLEMENT 5C: MSH2 and MSH6 levels after the treatment with thiosemicarbazones.

Western blot analysis of MSH2 and MSH6 levels in Saos-2, Daoy and SH-SY5Y cell lines after 24 h of incubation with DpC or Dp44mT. GAPDH served as a loading control. The experiments were repeated three times.

SUPPLEMENT 6A



SUPPLEMENT 6A : TOP2 α levels in untreated cell lines.

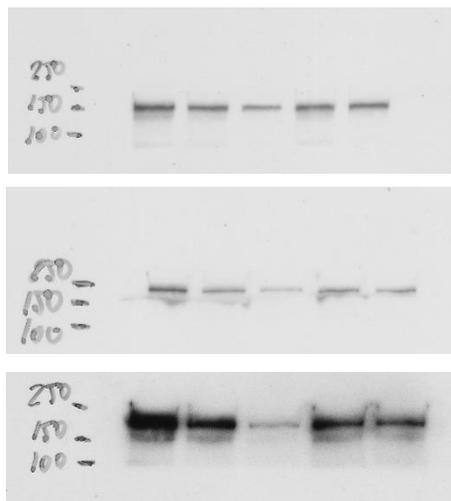
Western blot analysis of the endogenous TOP2 α levels in untreated cell lines. GAPDH served as a loading control. The experiments were repeated three times.

SUPPLEMENT 6B

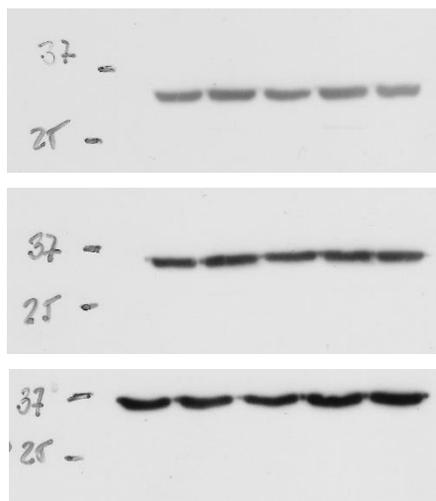
Saos-2

- 1 – control
- 2 – DpC 5 μ M
- 3 – DpC 20 μ M
- 4 – Dp44mT 5 μ M
- 5 – Dp44mT 20 μ M

TOP2 α 1 2 3 4 5



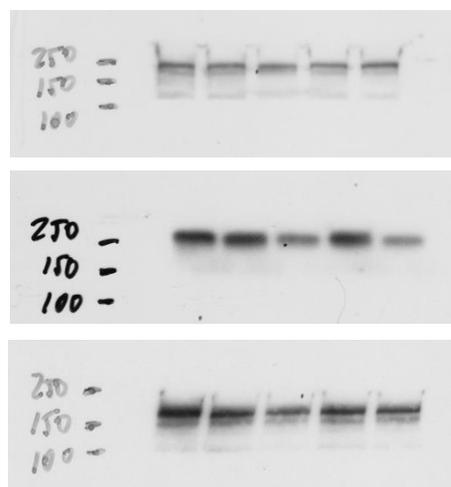
GAPDH 1 2 3 4 5



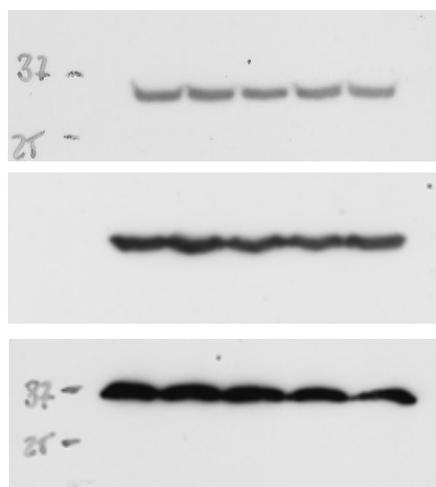
Daoy

- 1 – control
- 2 – DpC 5 μ M
- 3 – DpC 10 μ M
- 4 – Dp44mT 5 μ M
- 5 – Dp44mT 20 μ M

TOP2 α 1 2 3 4 5



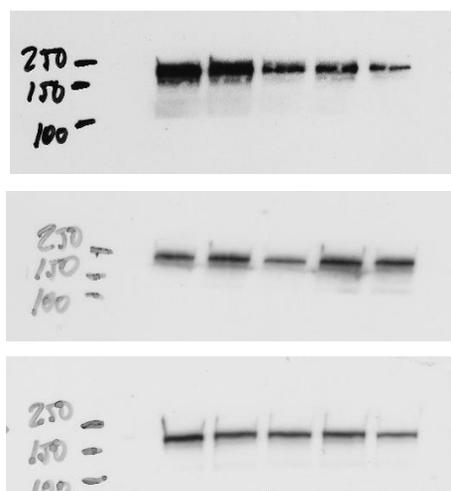
GAPDH 1 2 3 4 5



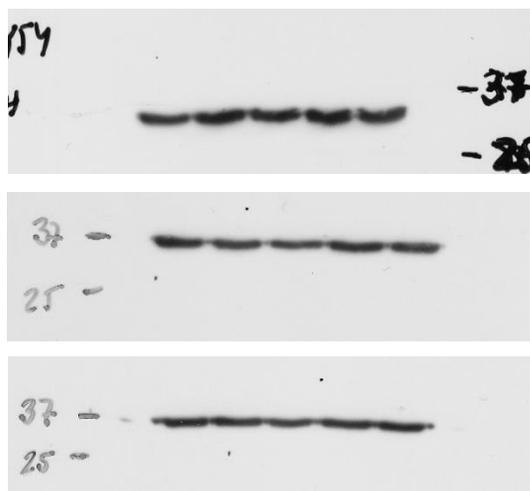
SH-SY5Y

- 1 – control
- 2 – DpC 5 μ M
- 3 – DpC 20 μ M
- 4 – Dp44mT 5 μ M
- 5 – Dp44mT 20 μ M

TOP2 α 1 2 3 4 5



GAPDH 1 2 3 4 5



SUPPLEMENT 6B: TOP2 α levels after the treatment with thiosemicarbazones.

Western blot analysis of the TOP2 α levels in Saos-2, Daoy and SH-SY5Y cells after 24 h of incubation with DpC or Dp44mT. GAPDH served as a loading control. The experiments were repeated three times.