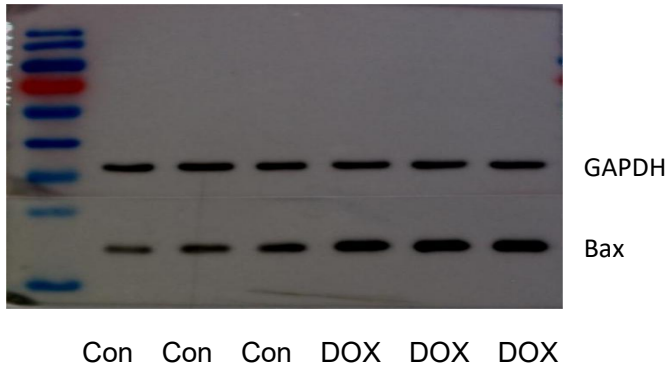
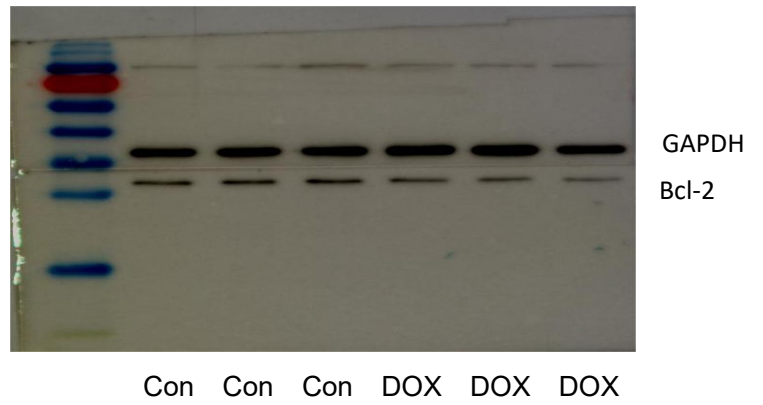


FIG.2

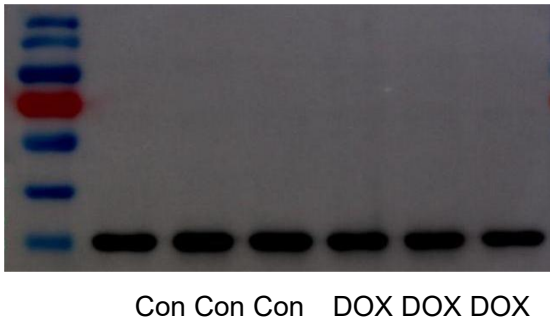
Bax+GAPDH



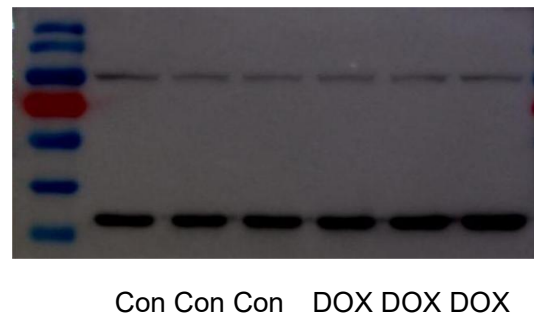
Bcl-2+GAPDH



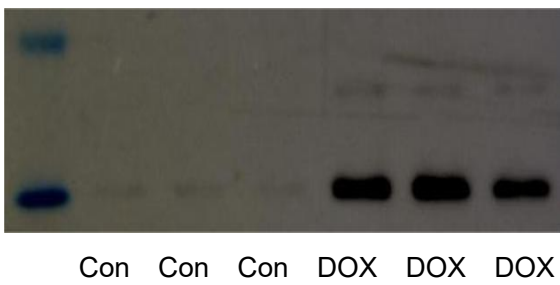
Caspase-3



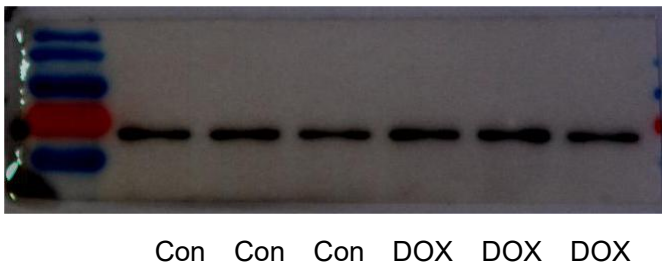
GAPDH



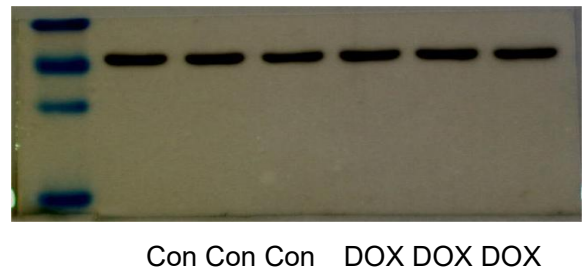
Cleaved Caspase-3



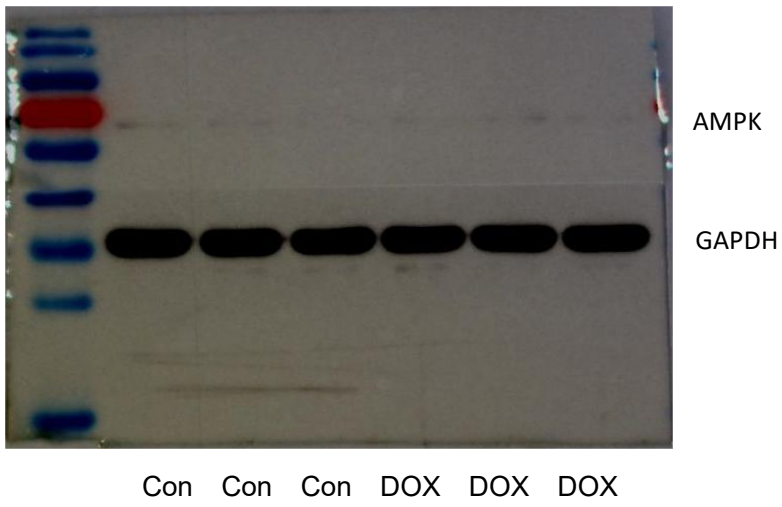
AMPK



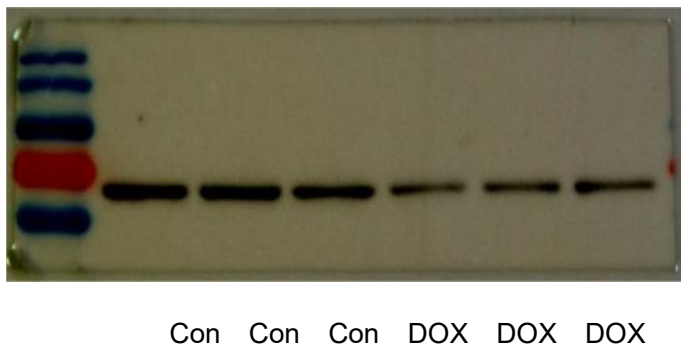
GAPDH



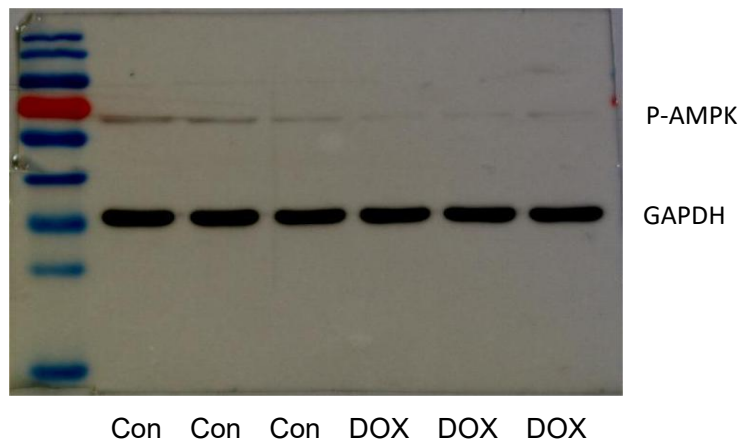
AMPK+GAPDH



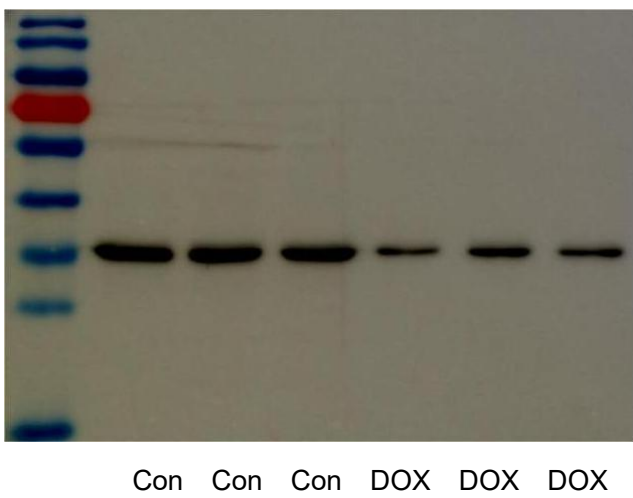
P-AMPK



P-AMPK+GAPDH



UCP2



GAPDH

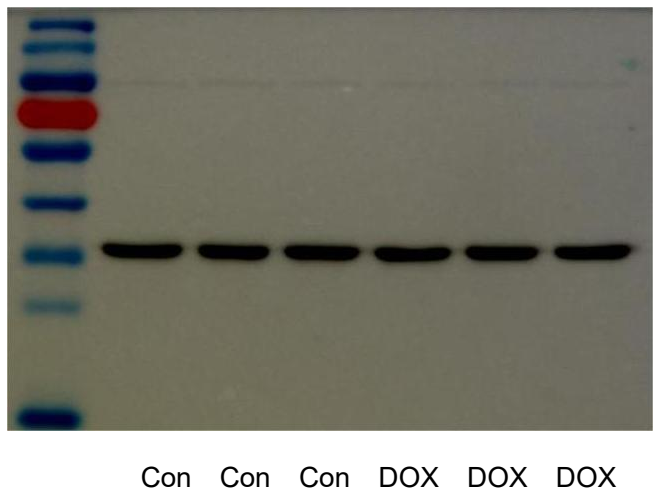
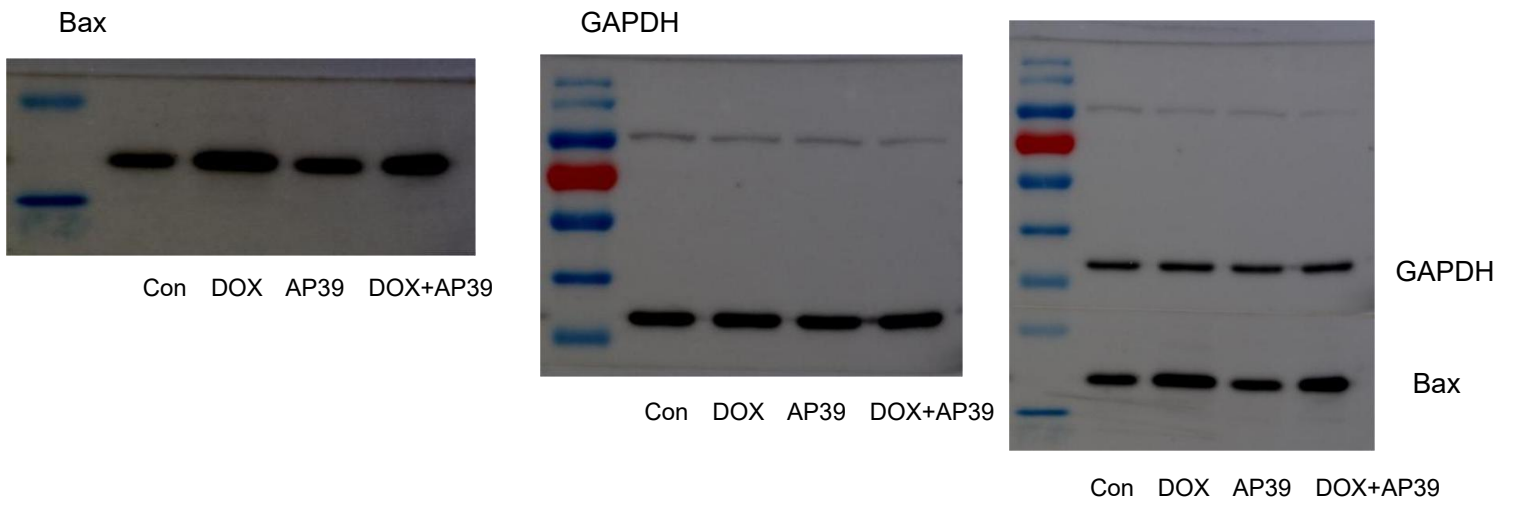
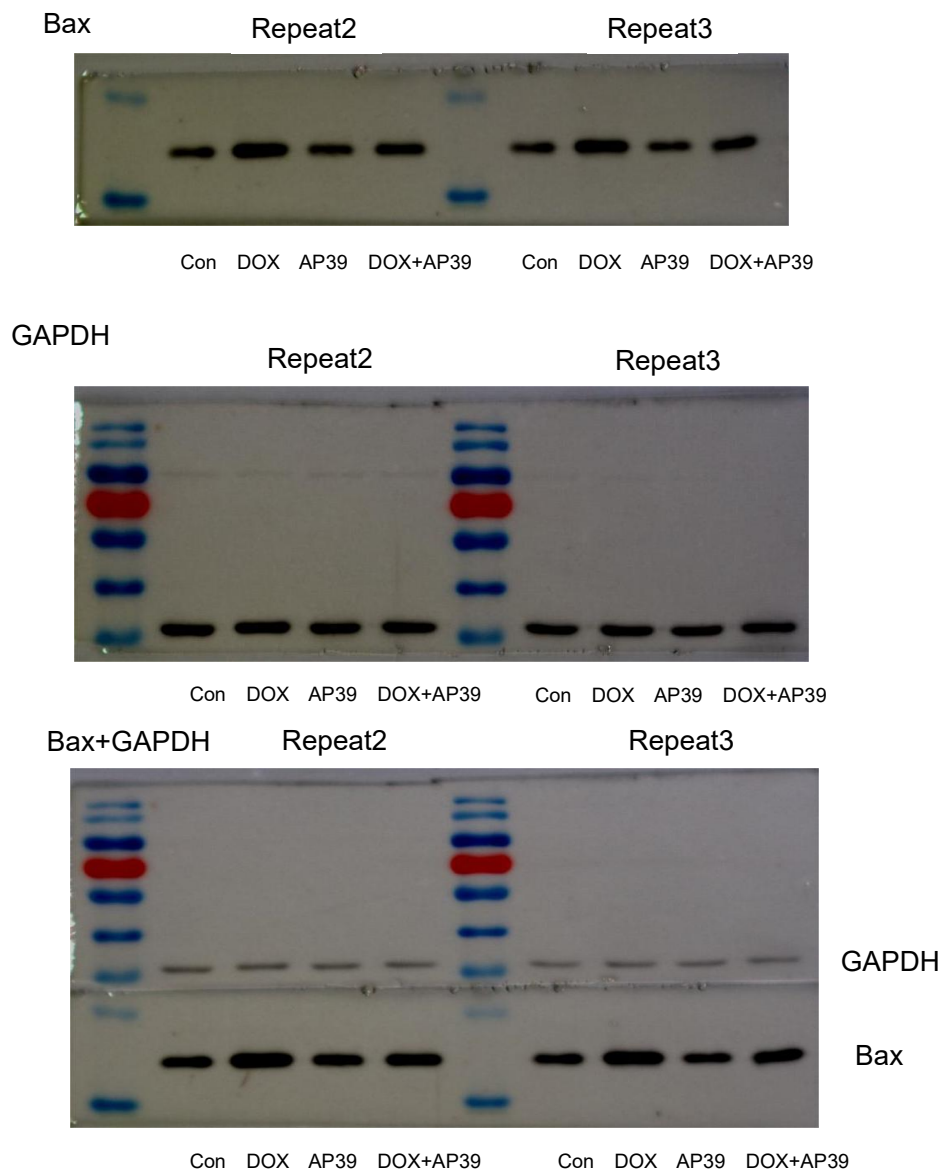


FIG.4

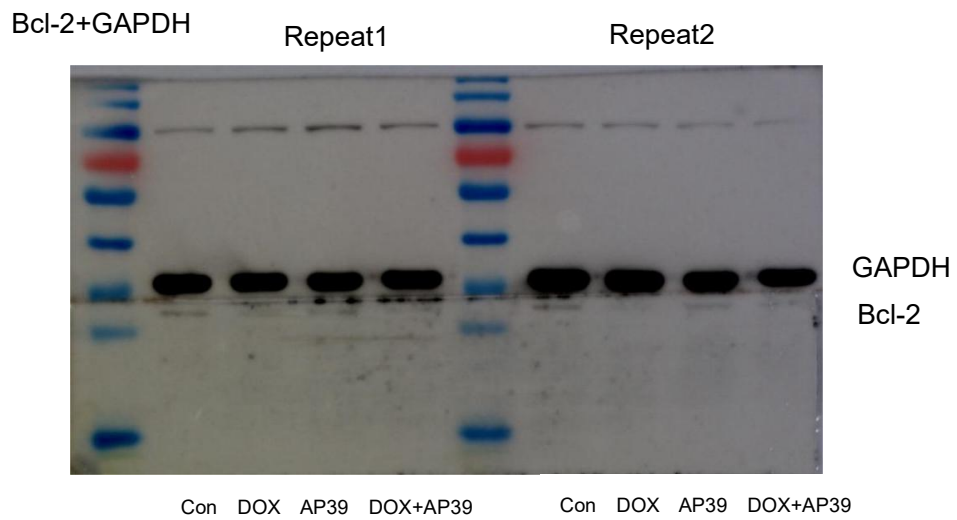
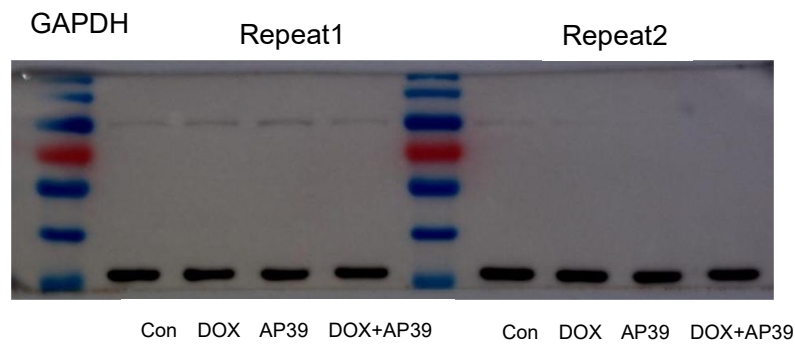
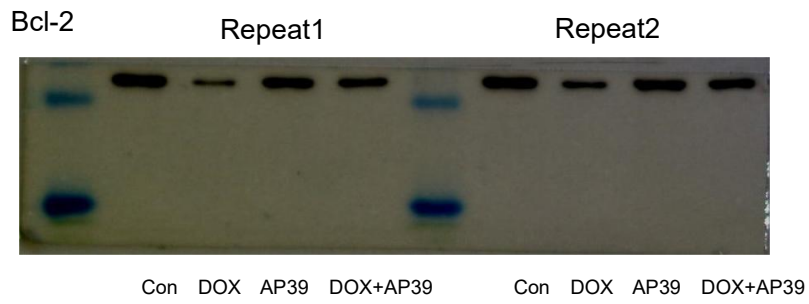
Bax Repeat1



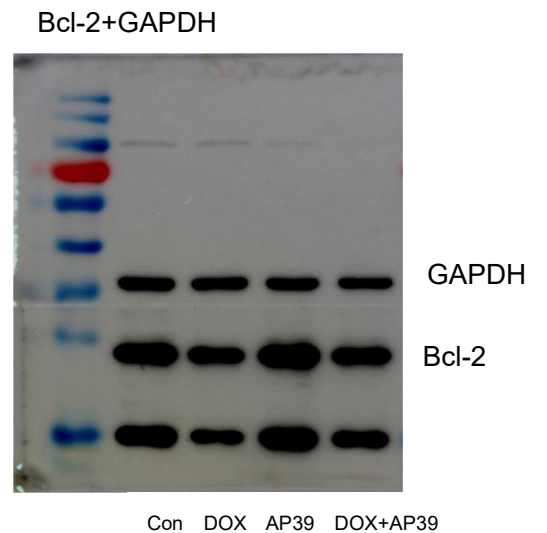
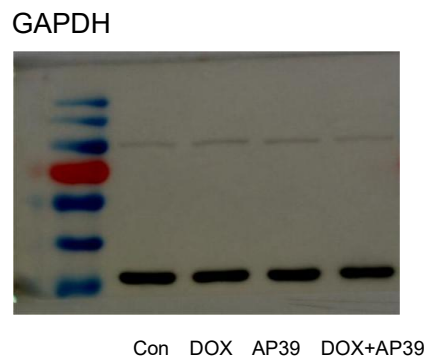
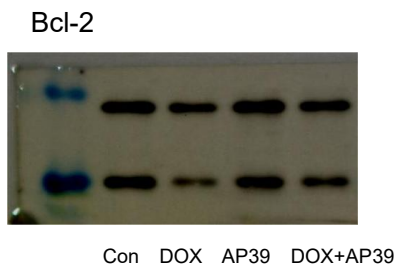
Bax Repeat2+Bax Repeat3



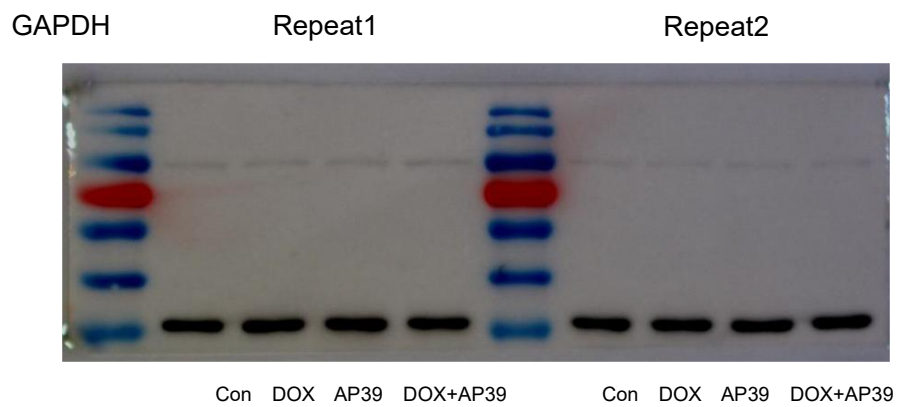
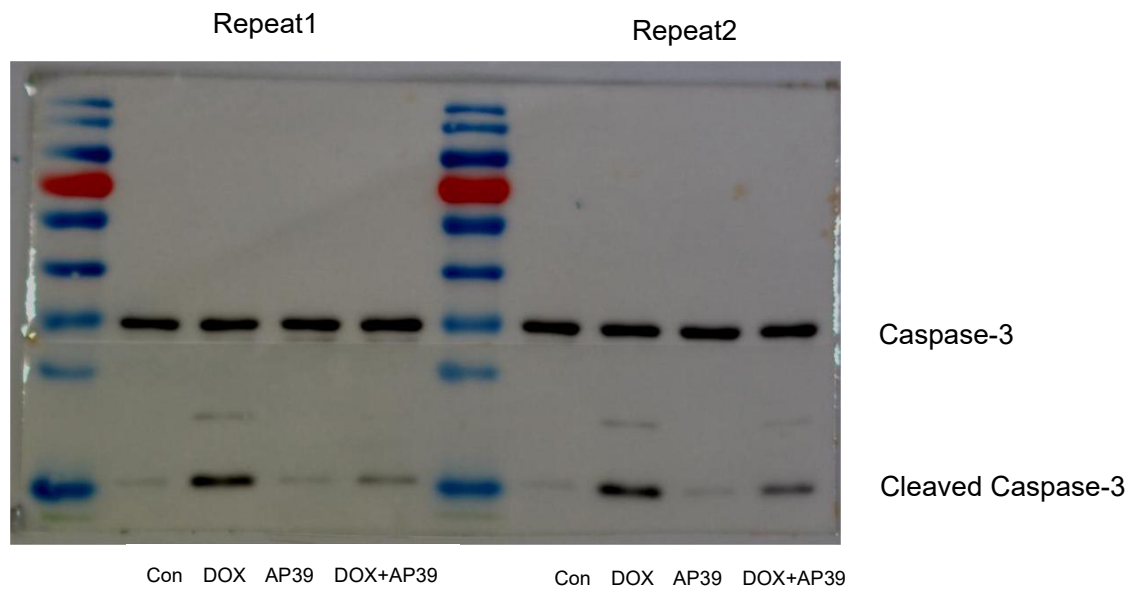
Bcl-2 Repeat1+Bcl-2 Repeat2



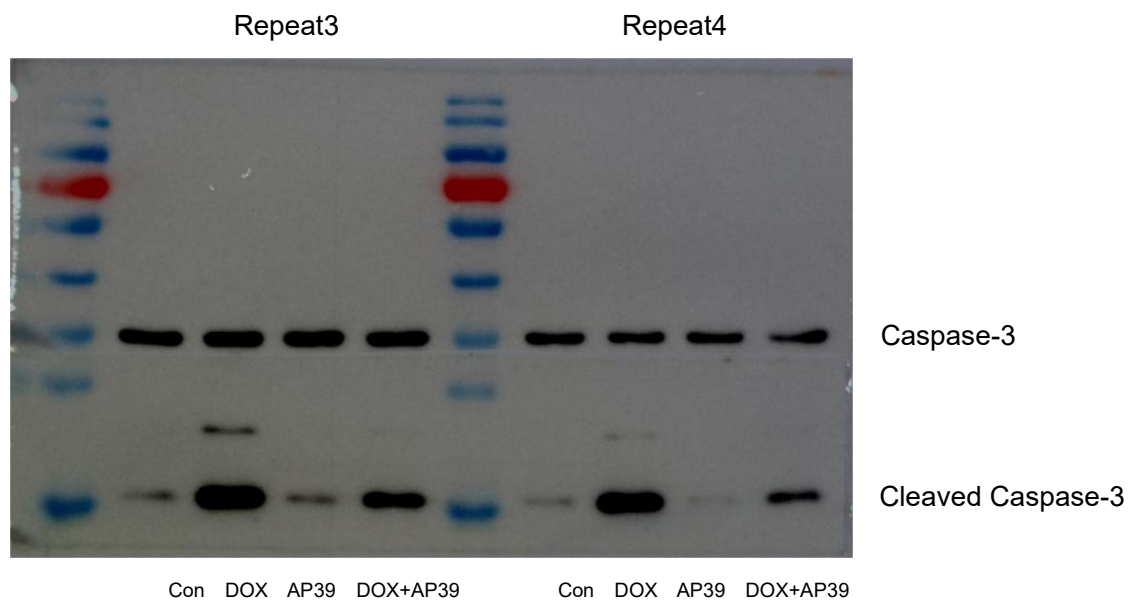
Bcl-2 Repeat3



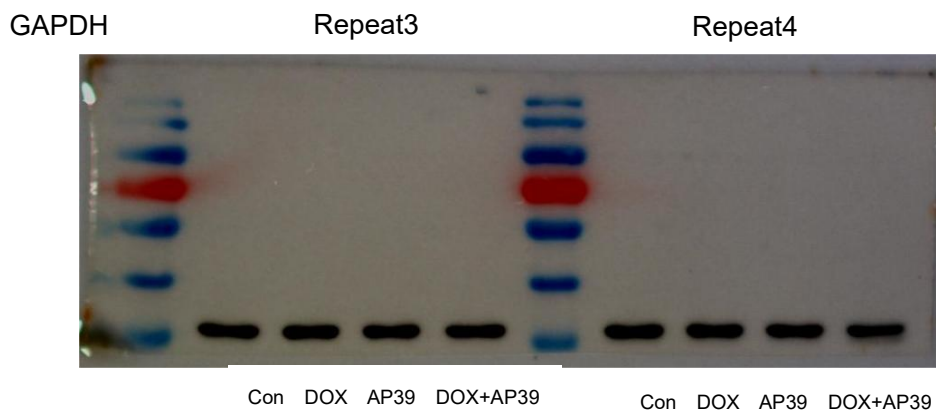
### Cleaved Caspase-3 and Caspase-3 Repeat1+Repeat2



### Cleaved Caspase-3 and Caspase-3 Repeat3+Repeat4





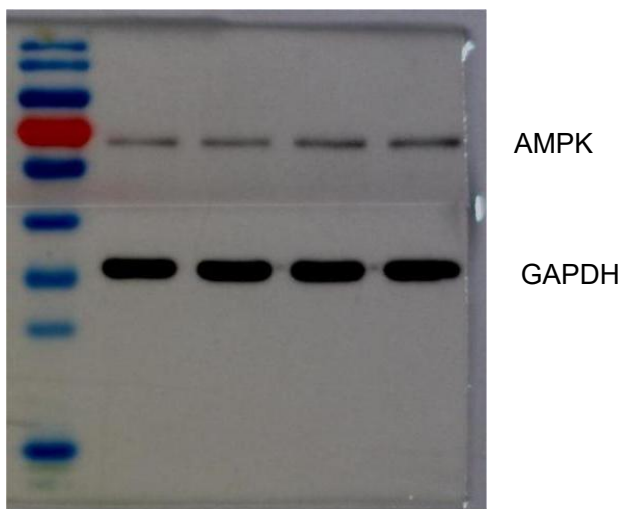


p-AMPK and AMPK Repeat1

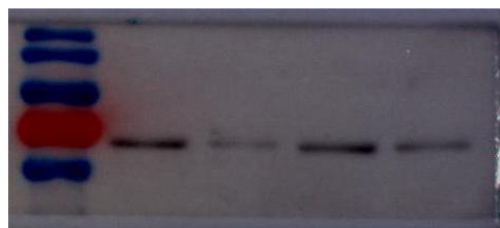
AMPK



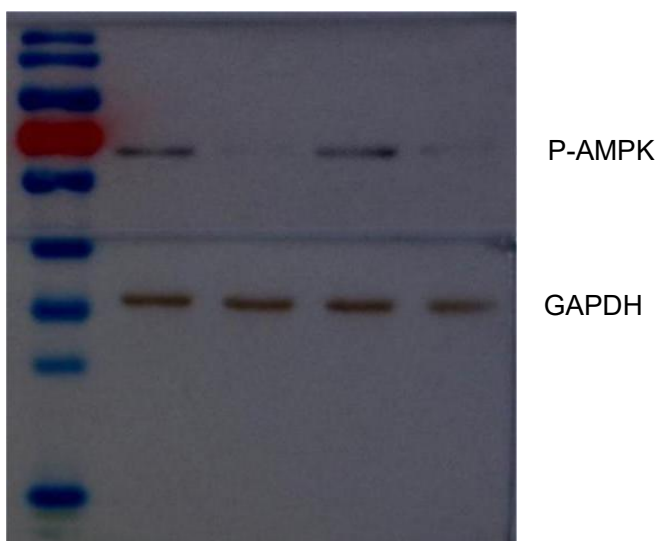
AMPK+GAPDH



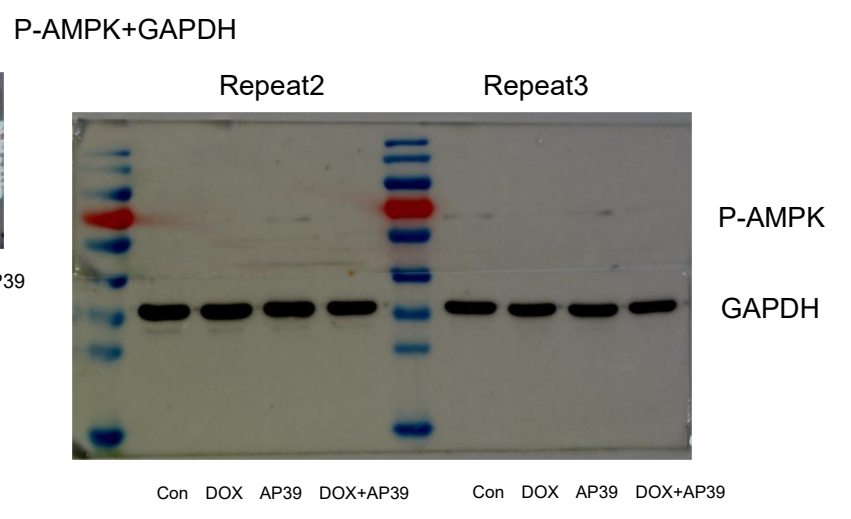
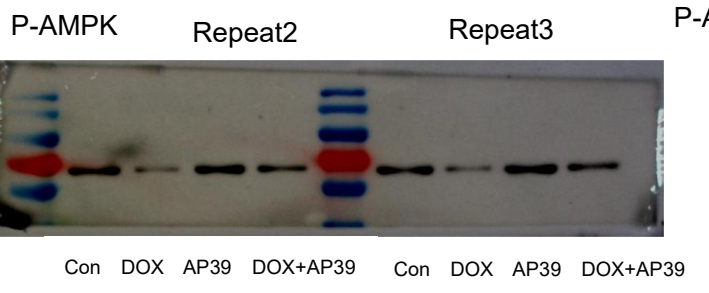
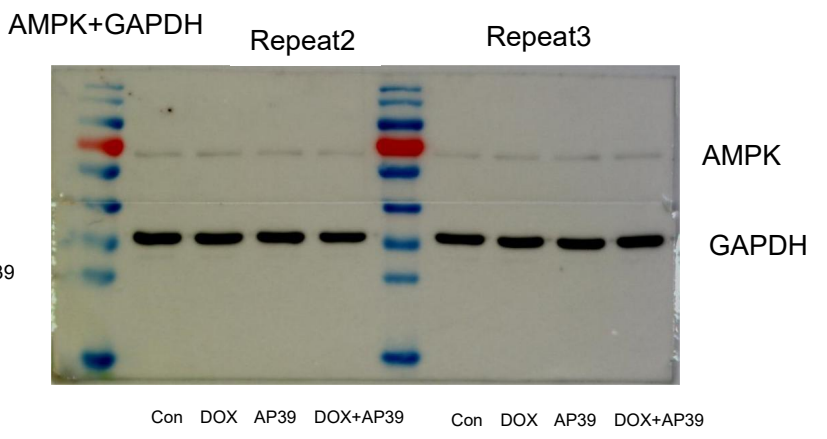
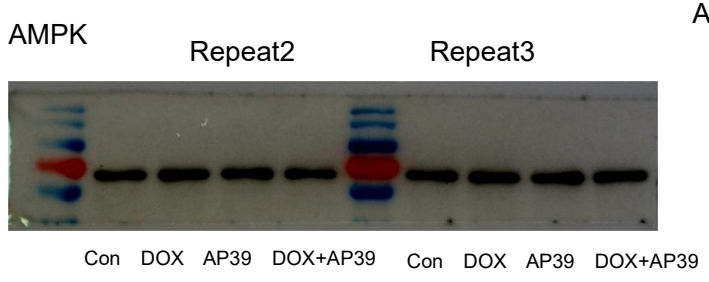
P-AMPK



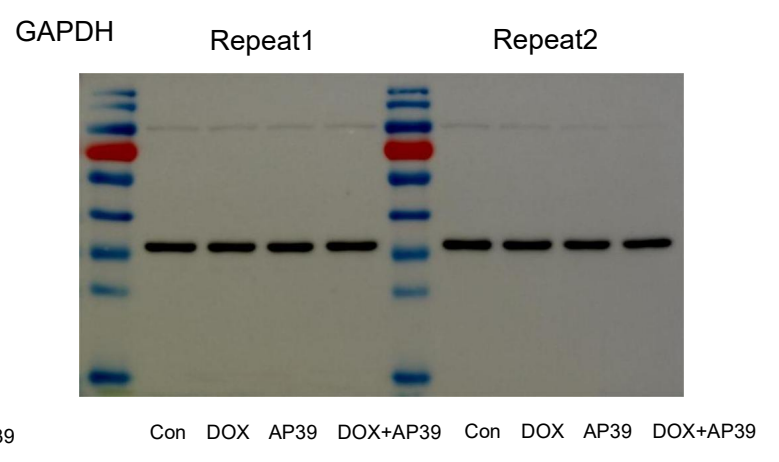
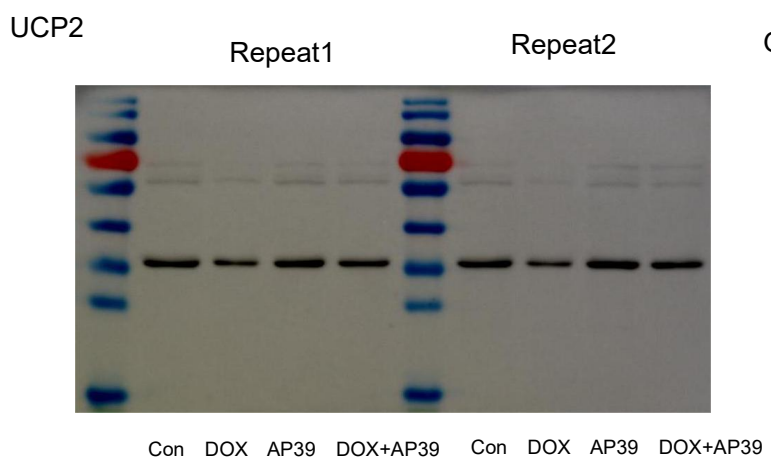
P-AMPK+GAPDH



p-AMPK and AMPK Repeat2+Repeat3



UCP2 Repeat1+Repeat2



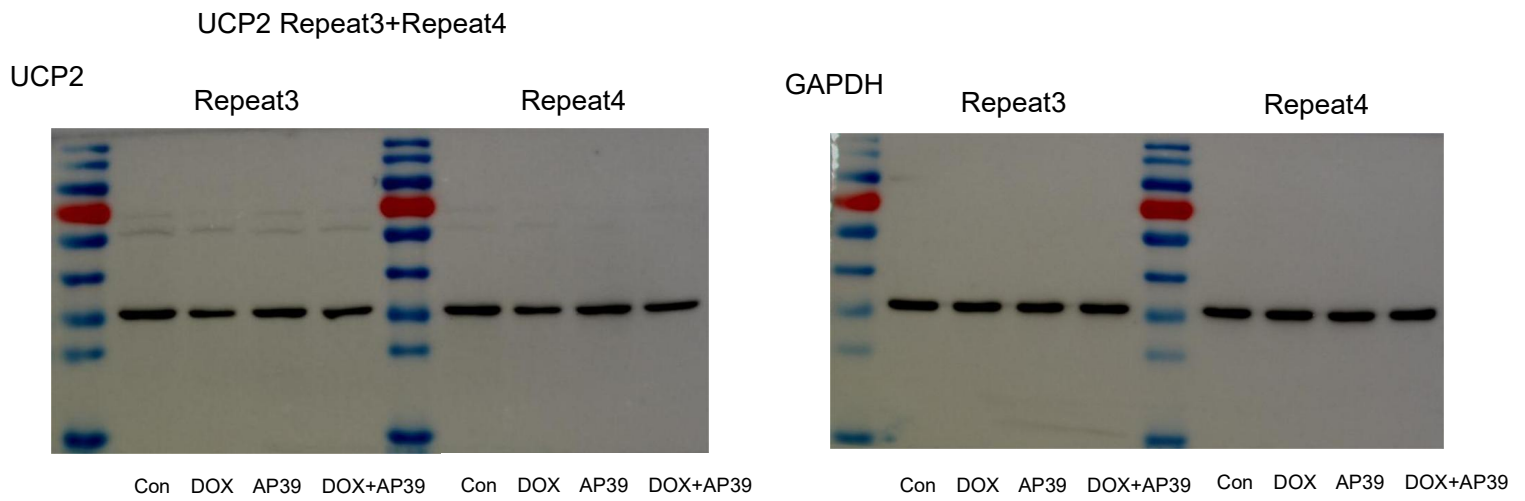
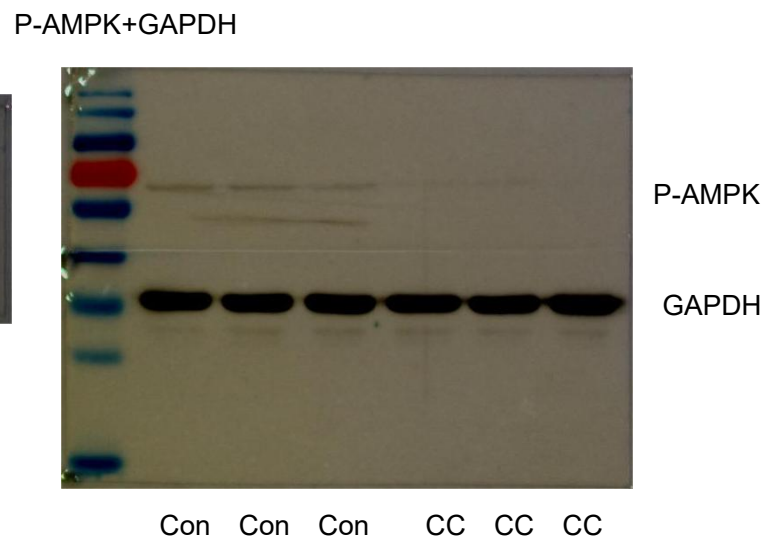
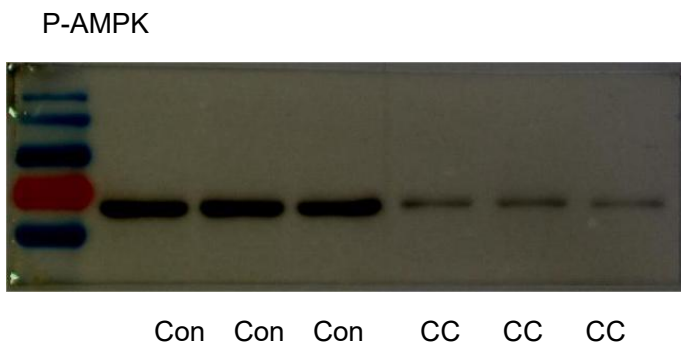
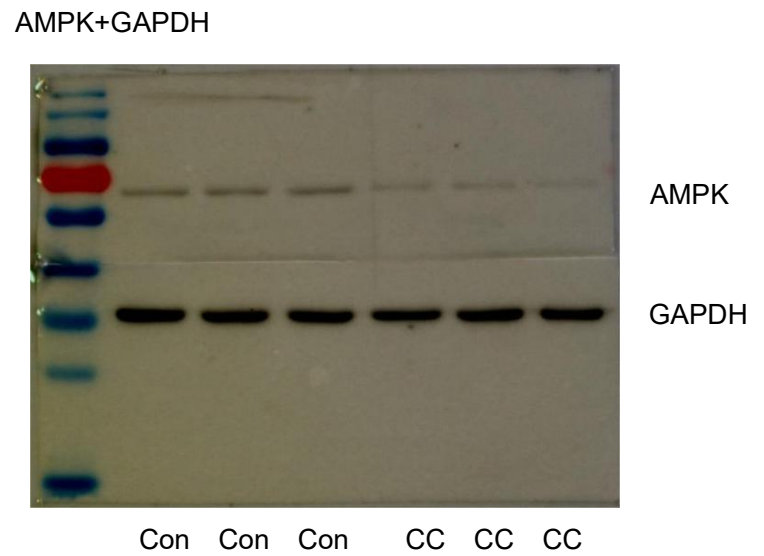
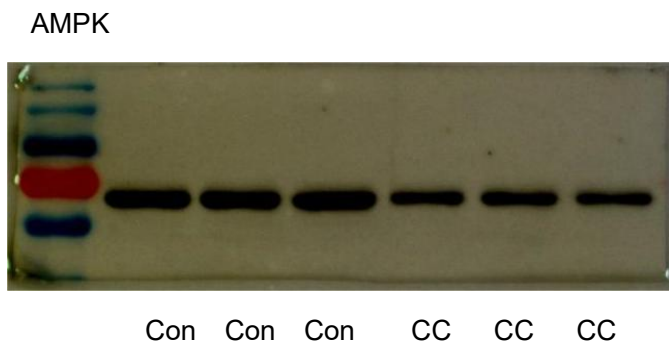


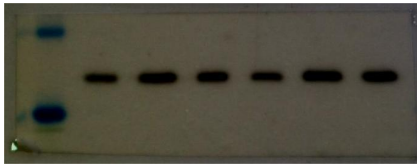
FIG.5





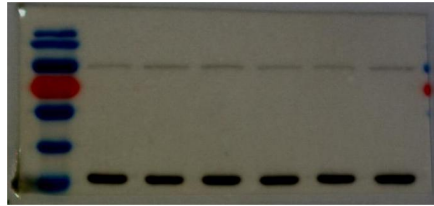
### Bax Repeat1

Bax



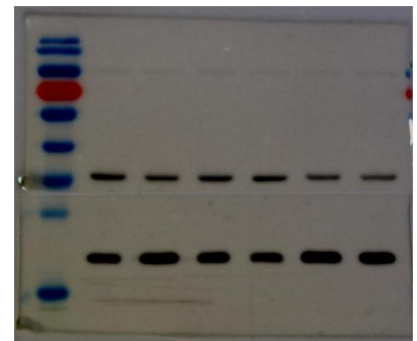
DOX	-	+	+	-	+	+
AP39	-	-	+	-	-	+
CC	-	-	-	+	+	+

GAPDH



DOX	-	+	+	-	+	+
AP39	-	-	+	-	-	+
CC	-	-	-	+	+	+

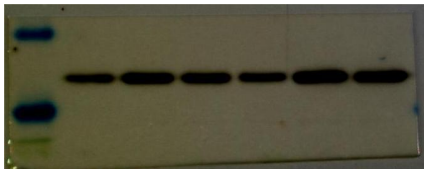
Bax+GAPDH



DOX	-	+	+	-	+	+
AP39	-	-	+	-	-	+
CC	-	-	-	+	+	+

### Bax Repeat2

Bax



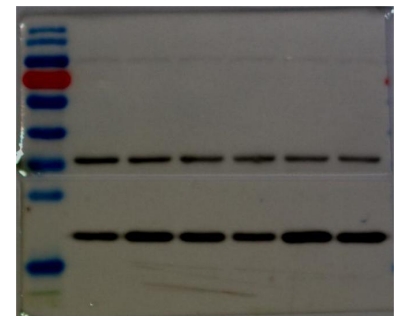
DOX	-	+	+	-	+	+
AP39	-	-	+	-	-	+
CC	-	-	-	+	+	+

GAPDH



DOX	-	+	+	-	+	+
AP39	-	-	+	-	-	+
CC	-	-	-	+	+	+

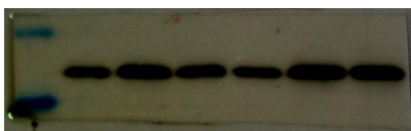
Bax+GAPDH



DOX	-	+	+	-	+	+
AP39	-	-	+	-	-	+
CC	-	-	-	+	+	+

### Bax Repeat3

Bax



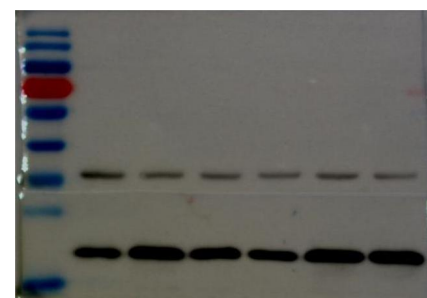
DOX	-	+	+	-	+	+
AP39	-	-	+	-	-	+
CC	-	-	-	+	+	+

GAPDH



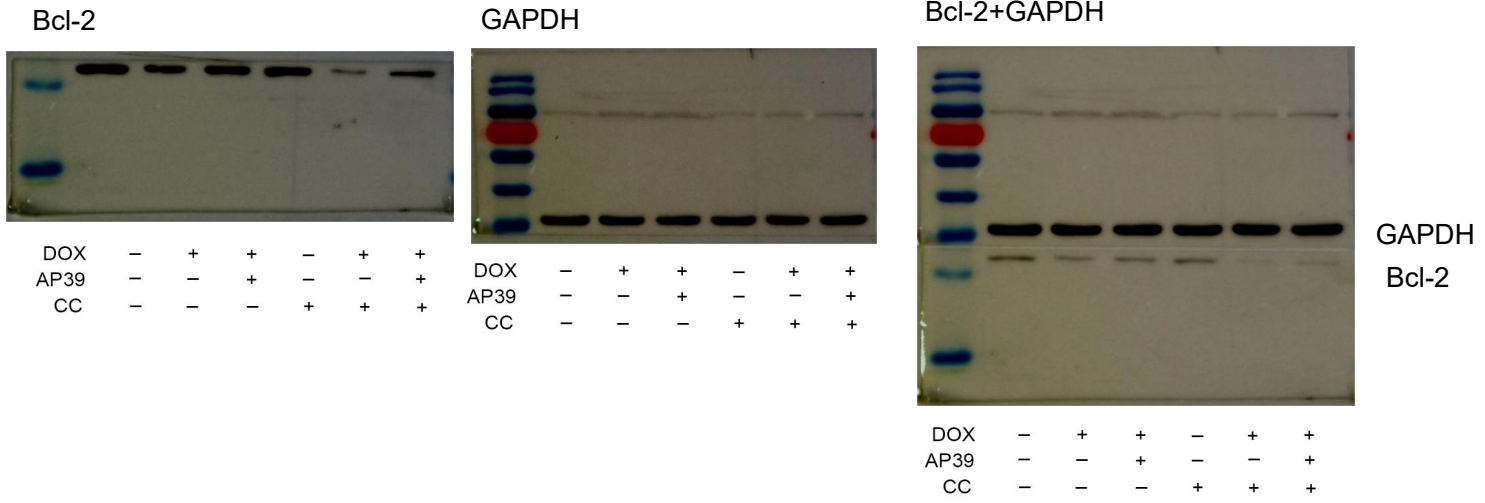
DOX	-	+	+	-	+	+
AP39	-	-	+	-	-	+
CC	-	-	-	+	+	+

Bax+GAPDH

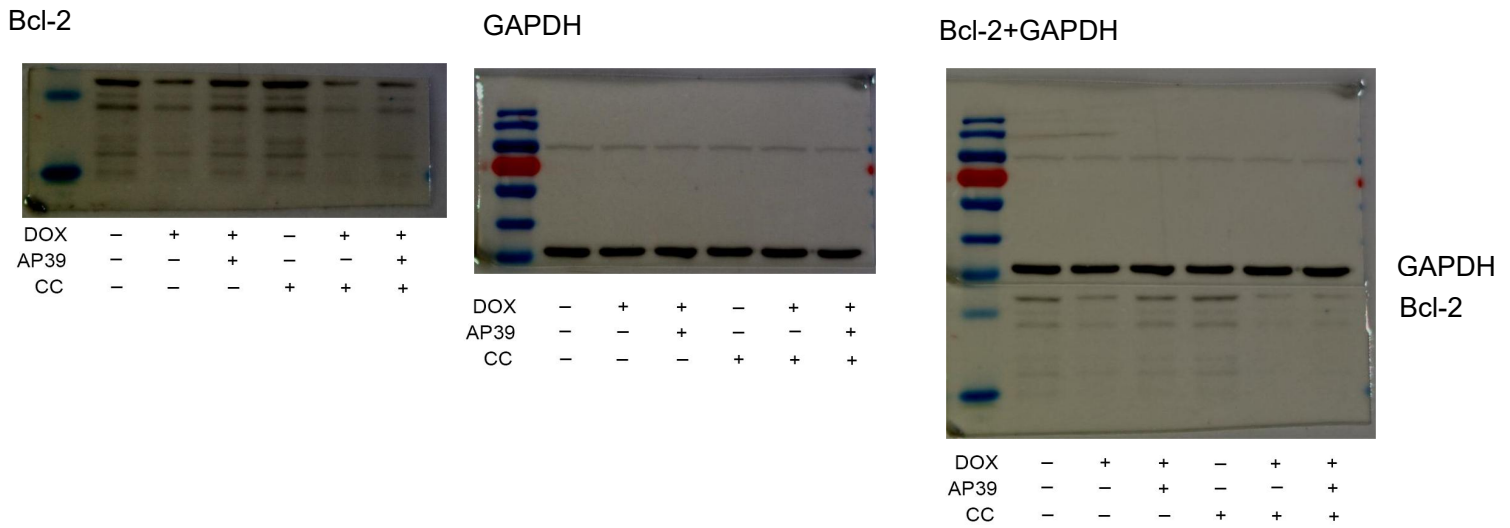


DOX	-	+	+	-	+	+
AP39	-	-	+	-	-	+
CC	-	-	-	+	+	+

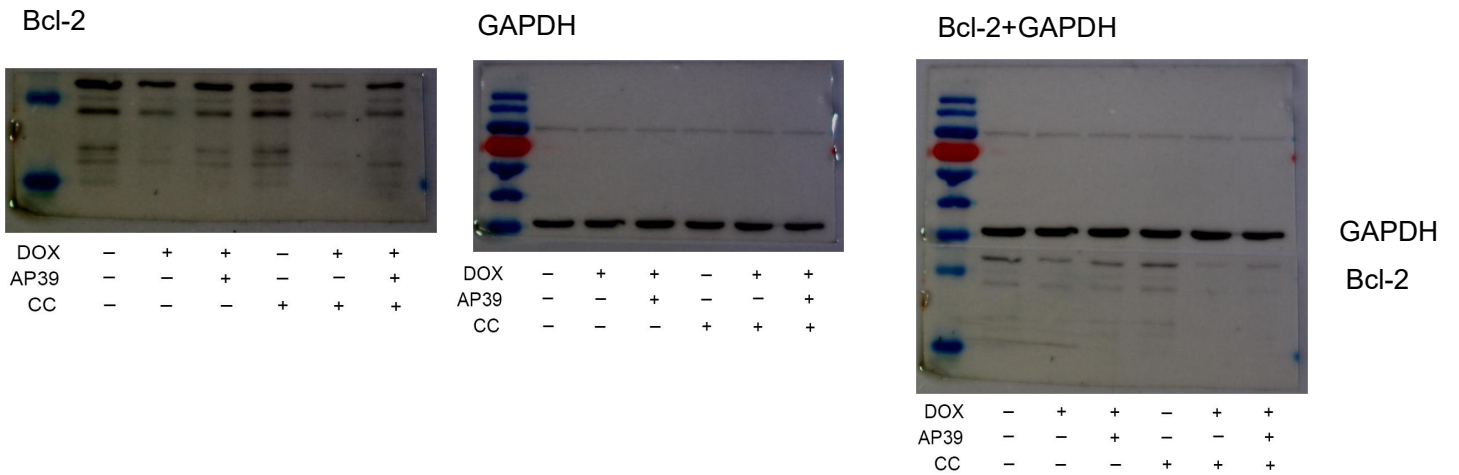
### Bcl-2 Repeat1



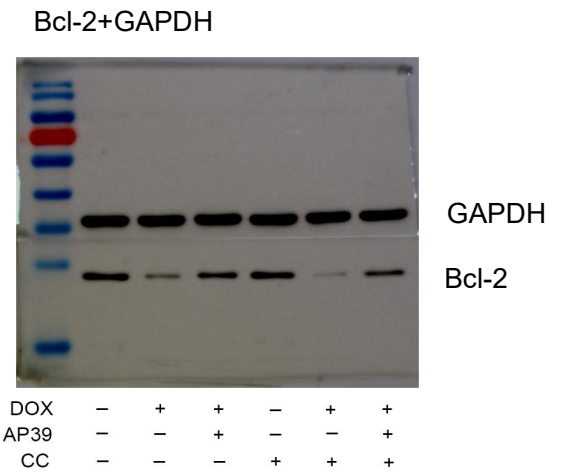
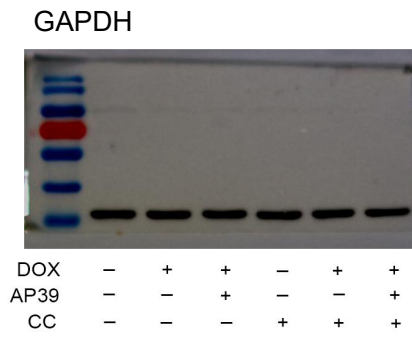
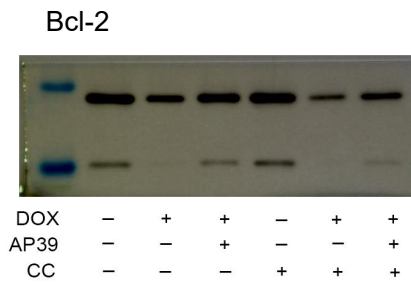
### Bcl-2 Repeat 2



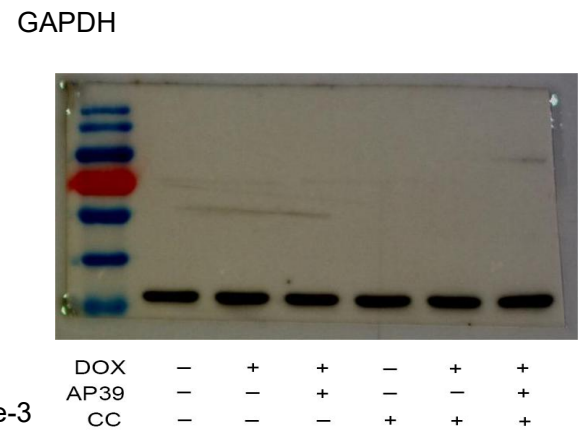
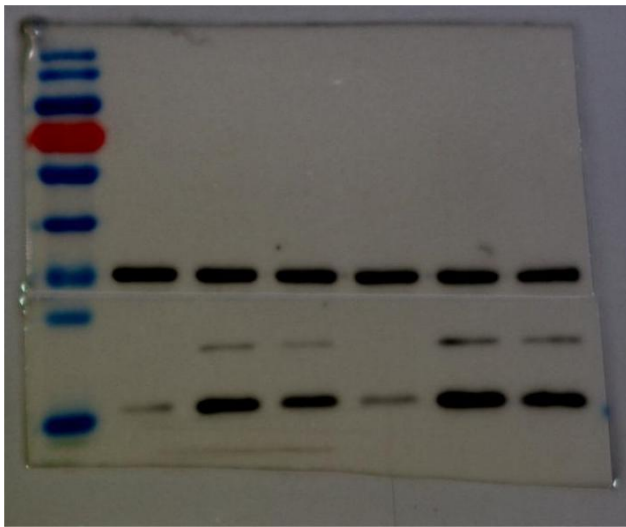
### Bcl-2 Repeat 3



### Bcl-2 Repeat 4

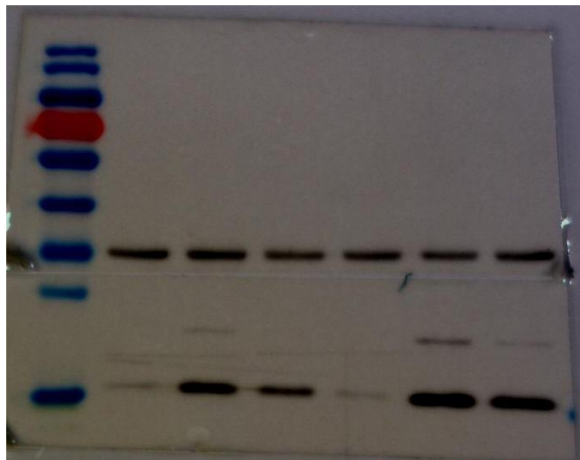


### Cleaved Caspase-3 and Caspase-3 Repeat1



DOX	-	+	+	-	+	+
AP39	-	-	+	-	-	+
CC	-	-	-	+	+	+

### Cleaved Caspase-3 and Caspase-3 Repeat 2



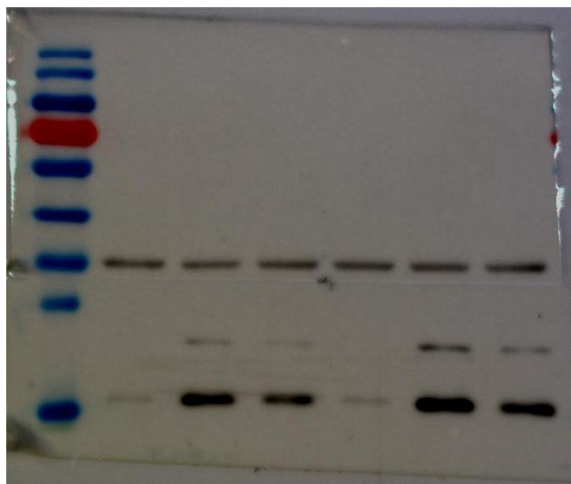
DOX	-	+	+	-	+	+
AP39	-	-	+	-	-	+
CC	-	-	-	+	+	+

### GAPDH



DOX	-	+	+	-	+	+
AP39	-	-	+	-	-	+
CC	-	-	-	+	+	+

### Cleaved Caspase-3 and Caspase-3 Repeat 3



DOX	-	+	+	-	+	+
AP39	-	-	+	-	-	+
CC	-	-	-	+	+	+

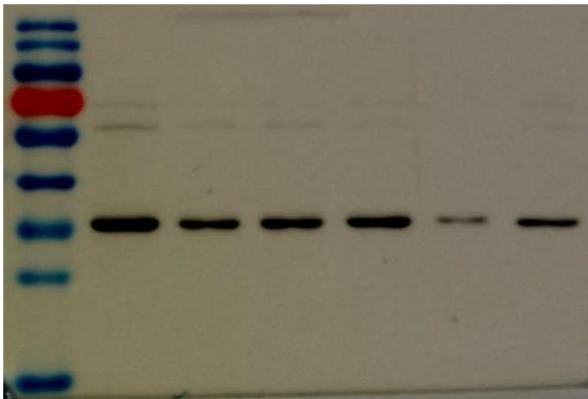
### GAPDH



DOX	-	+	+	-	+	+
AP39	-	-	+	-	-	+
CC	-	-	-	+	+	+

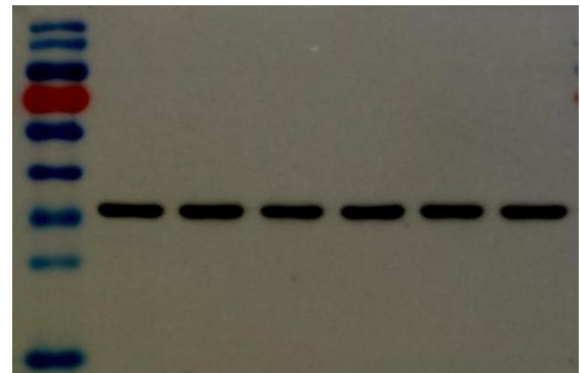
### UCP2 Repeat1

UCP2



DOX	-	+	+	-	+	+
AP39	-	-	+	-	-	+
CC	-	-	-	+	+	+

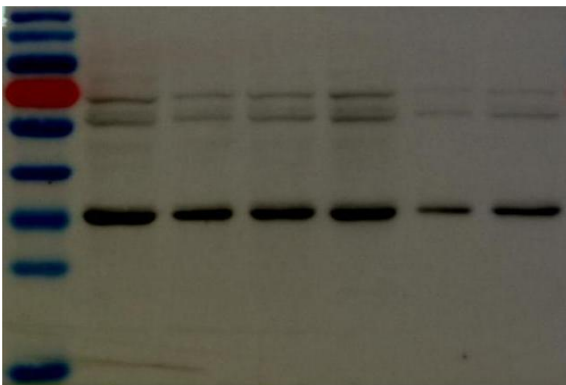
GAPDH



DOX	-	+	+	-	+	+
AP39	-	-	+	-	-	+
CC	-	-	-	+	+	+

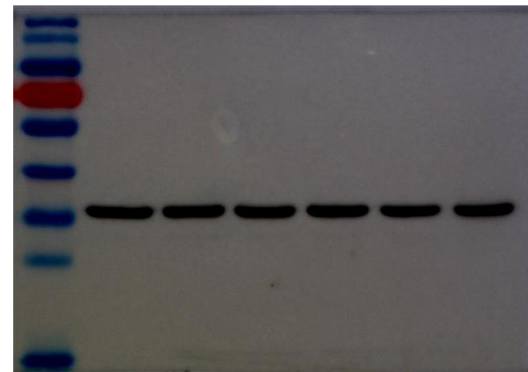
### UCP2 Repeat 2

UCP2



DOX	-	+	+	-	+	+
AP39	-	-	+	-	-	+
CC	-	-	-	+	+	+

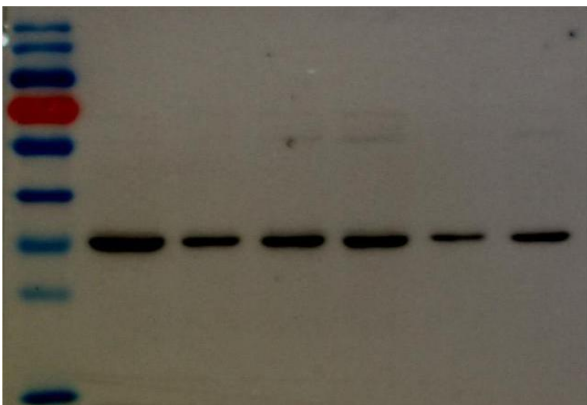
GAPDH



DOX	-	+	+	-	+	+
AP39	-	-	+	-	-	+
CC	-	-	-	+	+	+

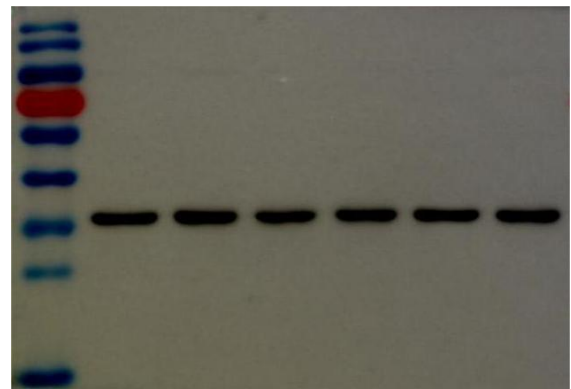
### UCP2 Repeat 3

UCP2



DOX	-	+	+	-	+	+
AP39	-	-	+	-	-	+
CC	-	-	-	+	+	+

GAPDH

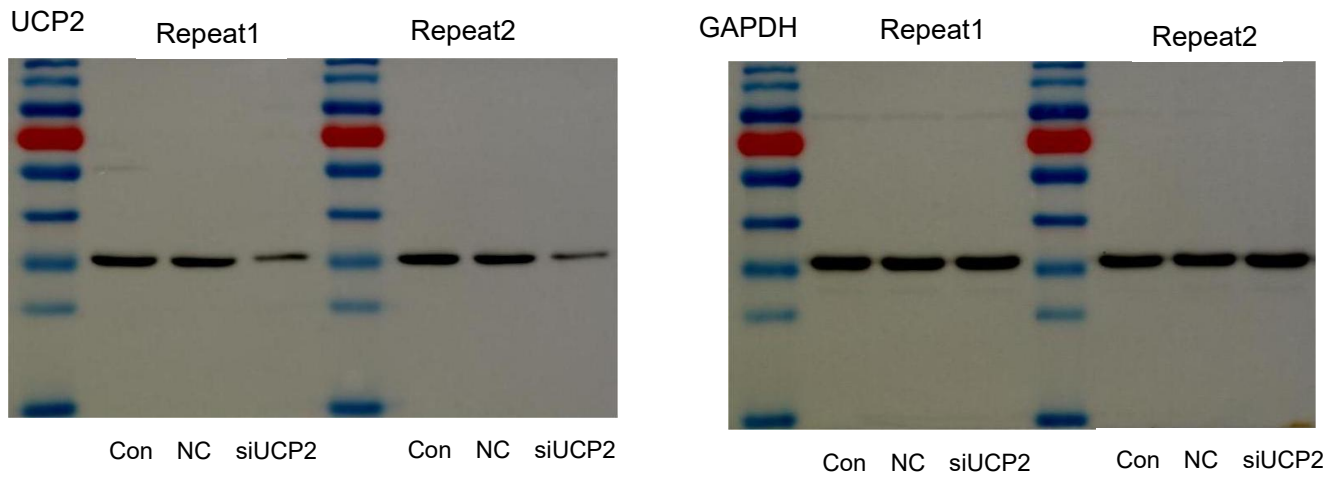


DOX	-	+	+	-	+	+
AP39	-	-	+	-	-	+
CC	-	-	-	+	+	+

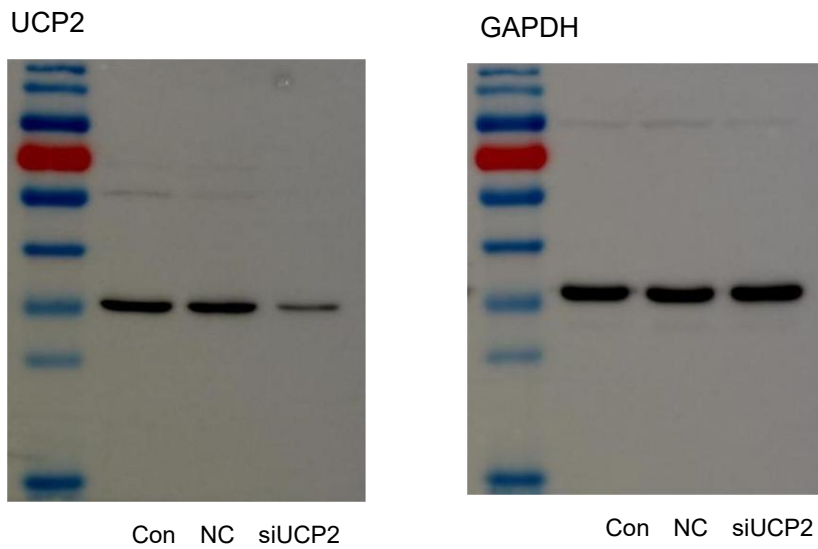


FIG.6

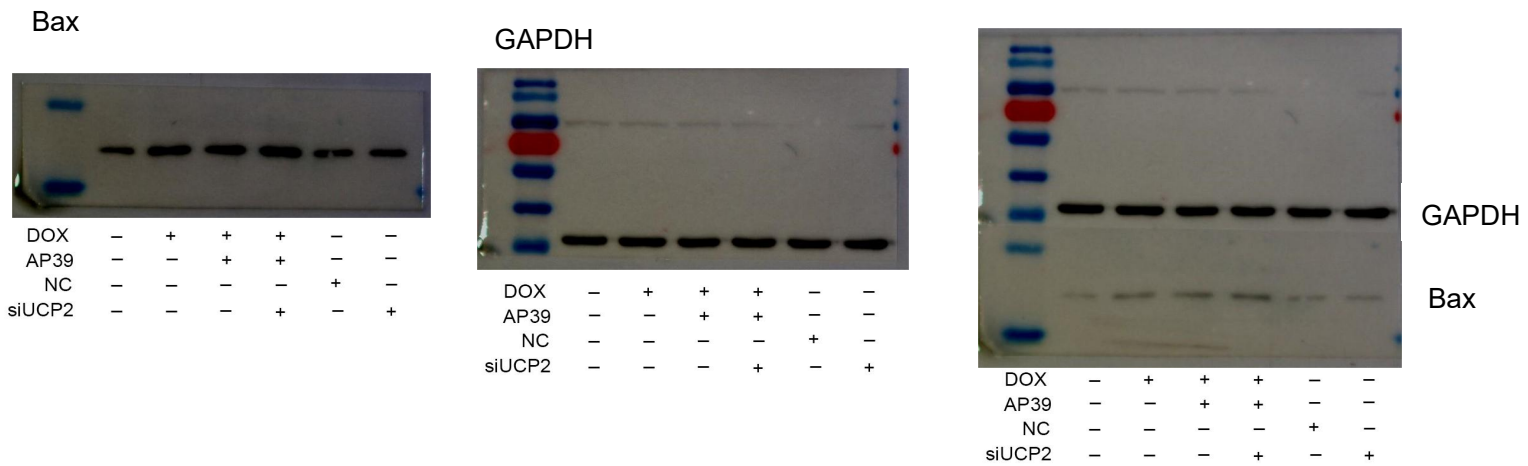
UCP2 Repeat1+Repeat2



UCP2 Repeat3

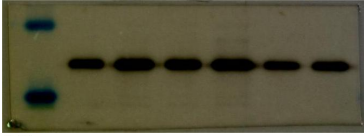


Bax Repeat1



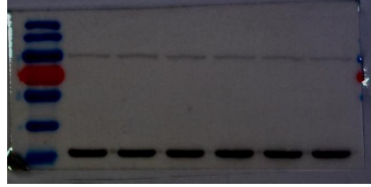
### Bax Repeat2

Bax



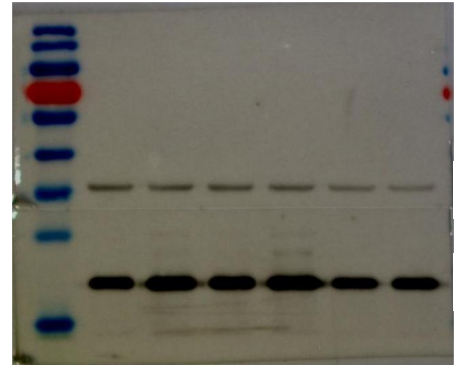
DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

GAPDH



DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

Bax+GAPDH



DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

GAPDH

Bax

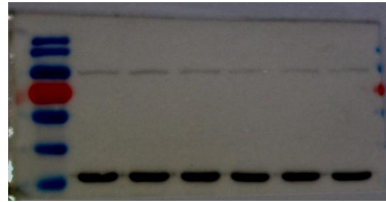
### Bax Repeat3

Bax



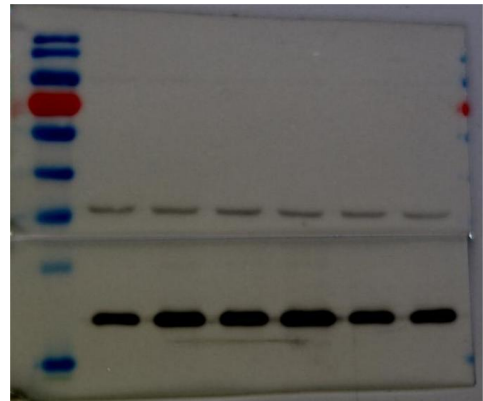
DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

GAPDH



DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

Bax+GAPDH



DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

GAPDH

Bax

### Bax Repeat4

Bax



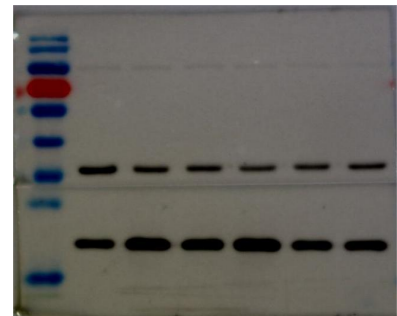
DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

GAPDH



DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

Bax+GAPDH



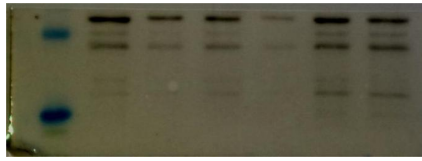
DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

GAPDH

Bax

### Bcl-2 Repeat1

Bcl-2



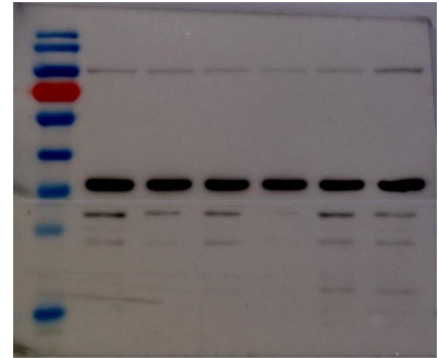
DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

GAPDH



DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

Bcl-2+GAPDH

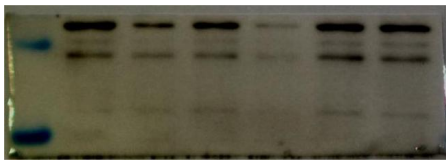


DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

GAPDH  
Bcl-2

### Bcl-2 Repeat2

Bcl-2



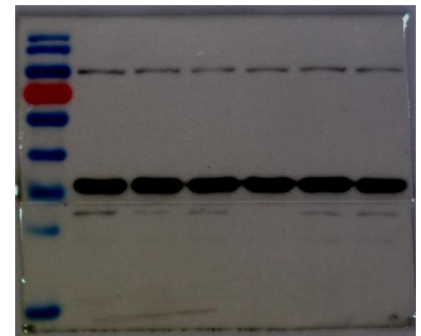
DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

GAPDH



DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

Bcl-2+GAPDH

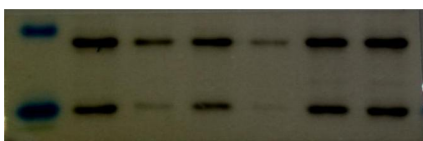


DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

GAPDH  
Bcl-2

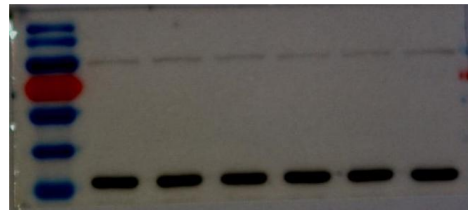
### Bcl-2 Repeat3

Bcl-2



DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

GAPDH



DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

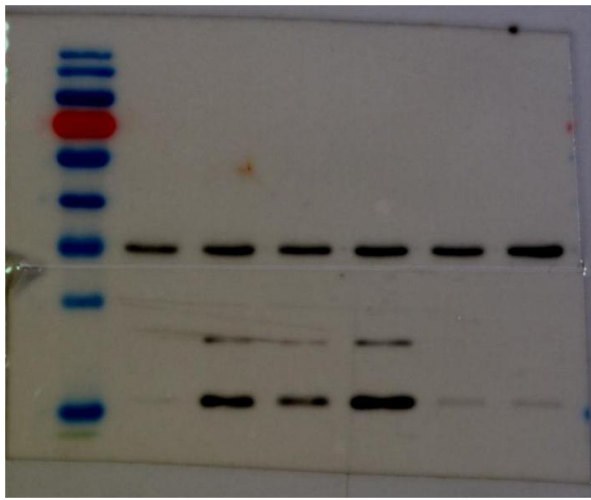
Bcl-2+GAPDH



DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

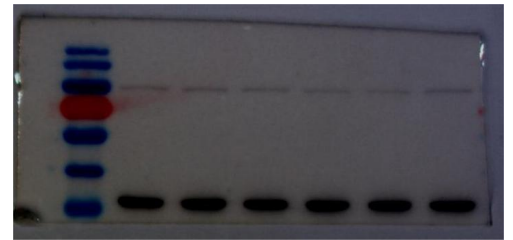
GAPDH  
Bcl-2

### Cleaved Caspase-3 and Caspase-3 Repeat 1



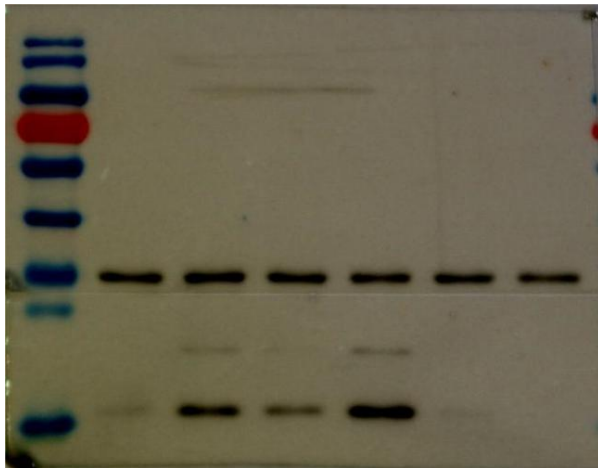
DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

### GAPDH



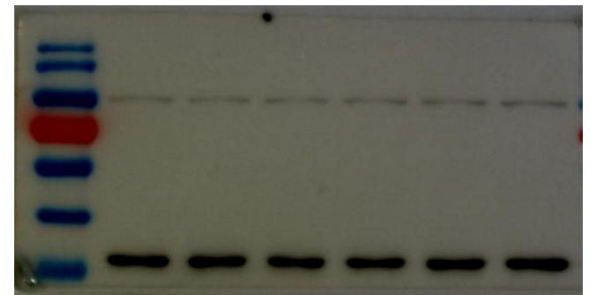
DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

### Cleaved Caspase-3 and Caspase-3 Repeat 2



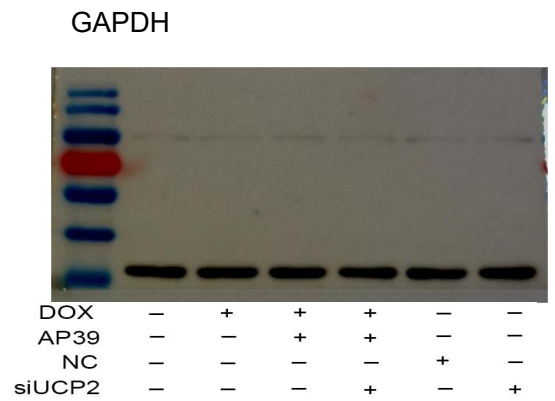
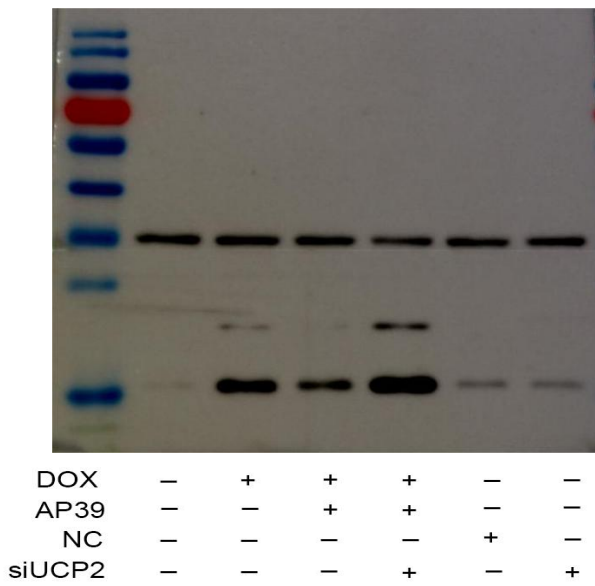
DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

### GAPDH

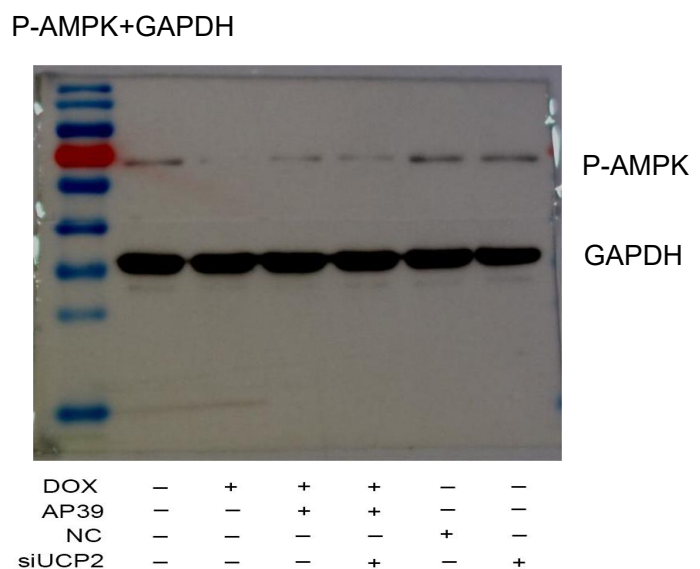
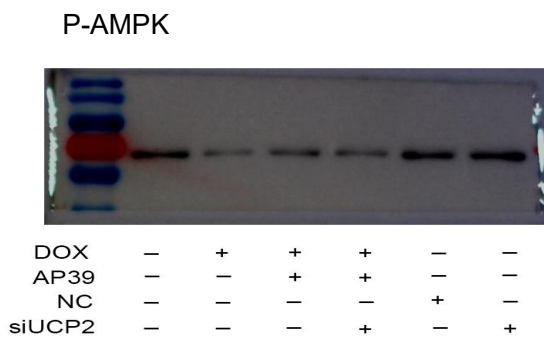
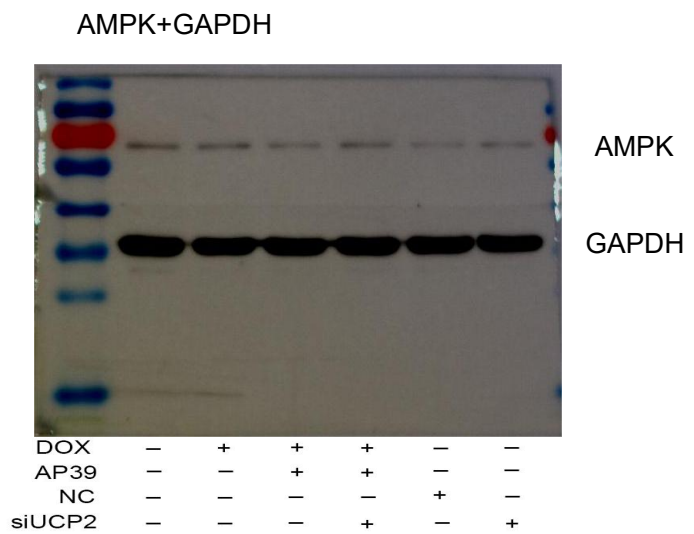
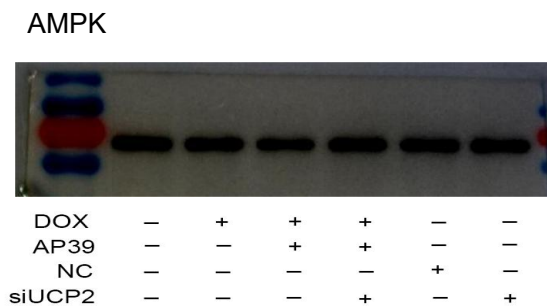


DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

### Cleaved Caspase-3 and Caspase-3 Repeat 3



### p-AMPK and AMPK Repeat1





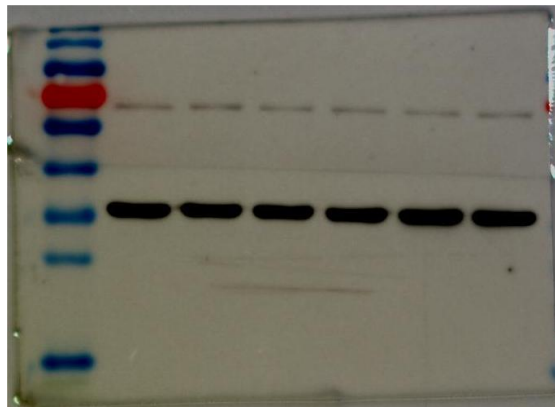
p-AMPK and AMPK Repeat2

AMPK



DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

AMPK+GAPDH

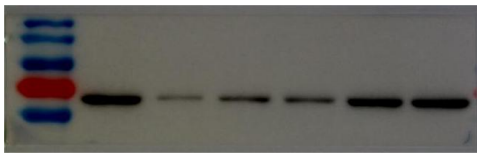


AMPK

GAPDH

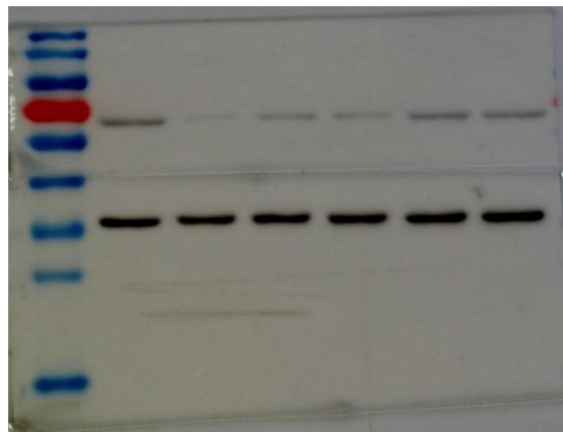
DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

P-AMPK



DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

P-AMPK+GAPDH



P-AMPK

GAPDH

DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

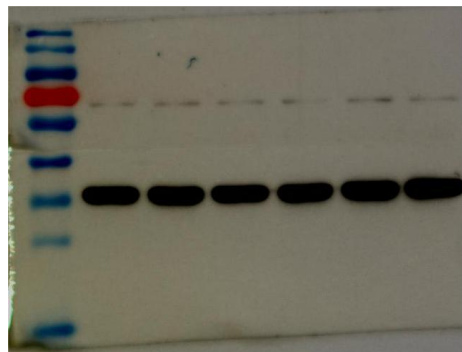
p-AMPK and AMPK Repeat3

AMPK



DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

AMPK+GAPDH

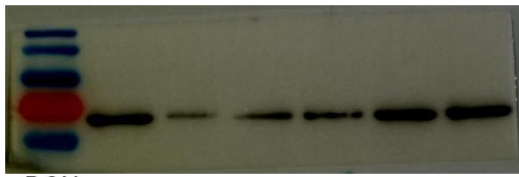


AMPK

GAPDH

DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

P-AMPK



DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

P-AMPK+GAPDH



DOX	-	+	+	+	-	-
AP39	-	-	+	+	-	-
NC	-	-	-	-	+	-
siUCP2	-	-	-	+	-	+

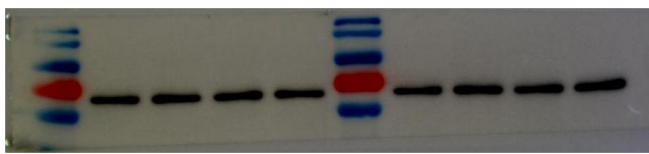
P-AMPK

GAPDH

FIG.7

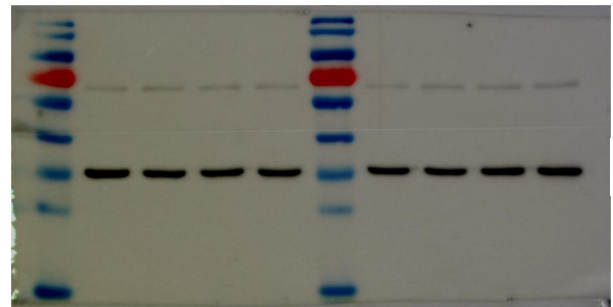
p-AMPK and AMPK Repeat1+Repeat2

AMPK



Con DOX AP39 DOX+AP39 Con DOX AP39 DOX+AP39

AMPK+GAPDH

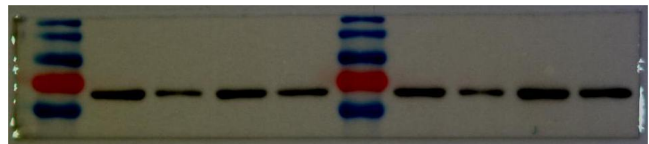


Con DOX AP39 DOX+AP39 Con DOX AP39 DOX+AP39

AMPK

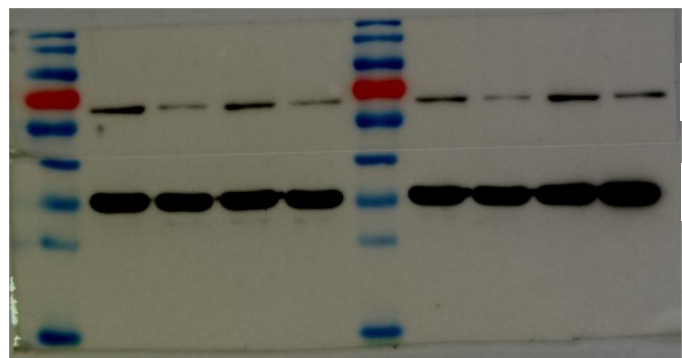
GAPDH

P-AMPK



Con DOX AP39 DOX+AP39 Con DOX AP39 DOX+AP39

P-AMPK+GAPDH

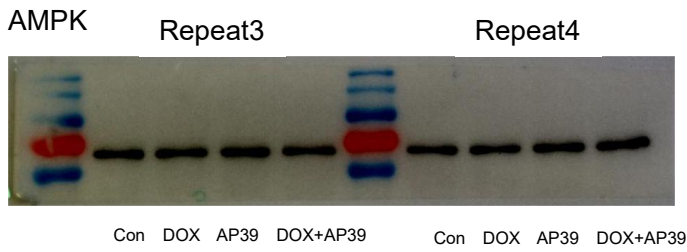


Con DOX AP39 DOX+AP39 Con DOX AP39 DOX+AP39

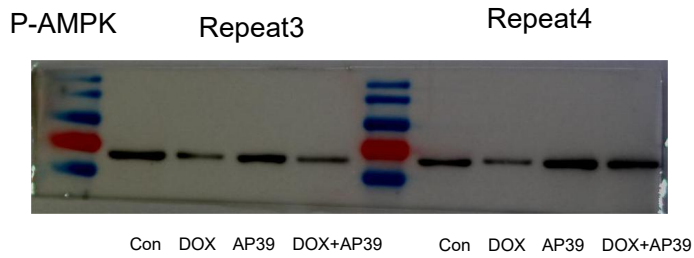
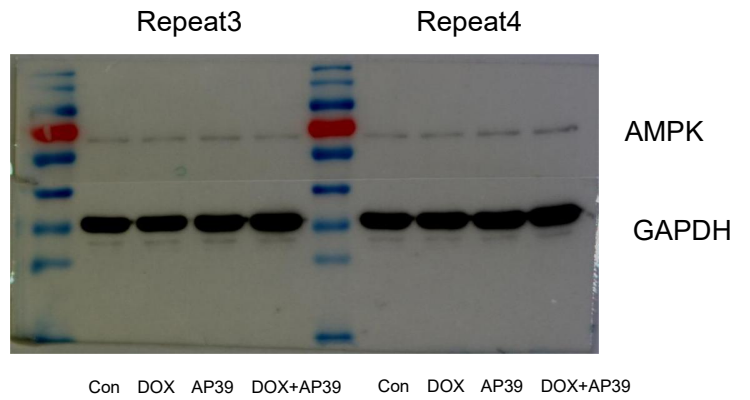
P-AMPK

GAPDH

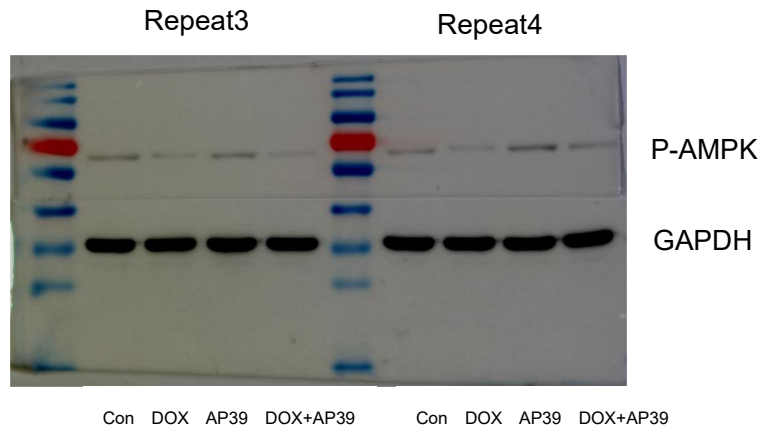
p-AMPK and AMPK Repeat3+Repeat4



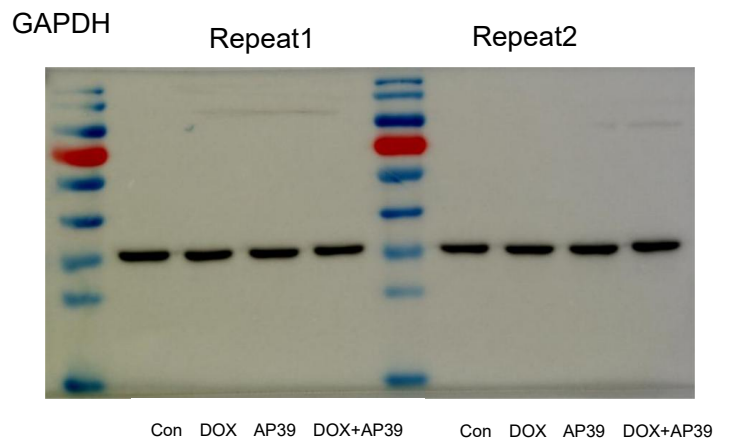
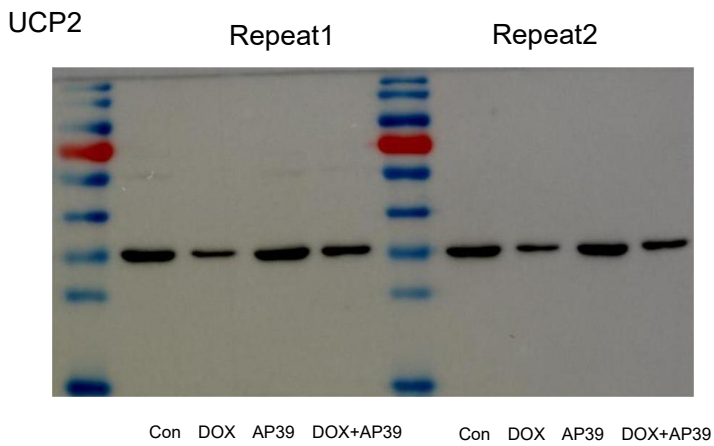
AMPK+GAPDH



P-AMPK+GAPDH



UCP2 Repeat1+Repeat2

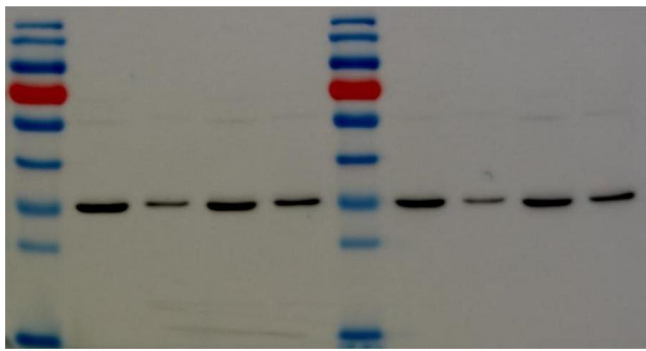


### UCP2 Repeat3+Repeat4

UCP2

Repeat3

Repeat4

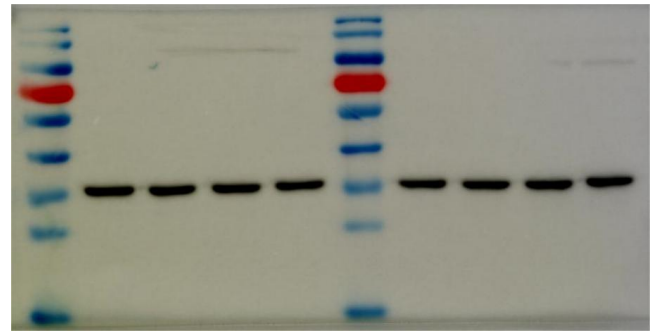


Con DOX AP39 DOX+AP39      Con DOX AP39 DOX+AP39

GAPDH

Repeat3

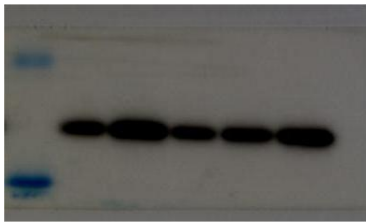
Repeat4



Con DOX AP39 DOX+AP39      Con DOX AP39 DOX+AP39

### Bax Repeat1

Bax



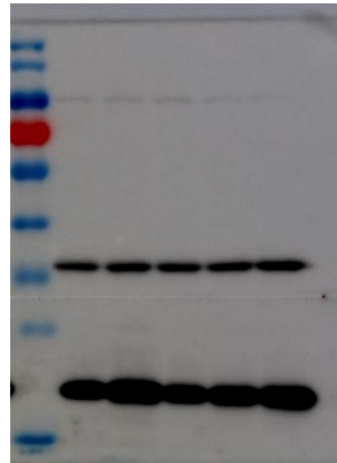
DOX	-	+	-	+	+
AP39	-	-	+	+	+
CC	-	-	-	-	+

GAPDH



DOX	-	+	-	+	+
AP39	-	-	+	+	+
CC	-	-	-	-	+

Bax+GAPDH



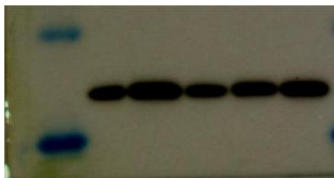
GAPDH

Bax

DOX	-	+	-	+	+
AP39	-	-	+	+	+
CC	-	-	-	-	+

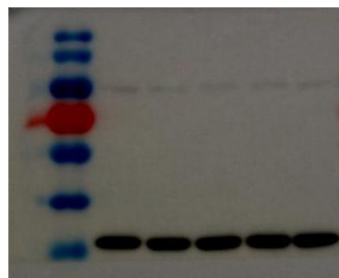
### Bax Repeat2

Bax



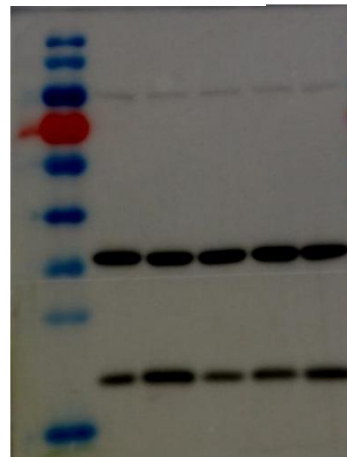
DOX	-	+	-	+	+
AP39	-	-	+	+	+
CC	-	-	-	-	+

GAPDH



DOX	-	+	-	+	+
AP39	-	-	+	+	+
CC	-	-	-	-	+

Bax+GAPDH

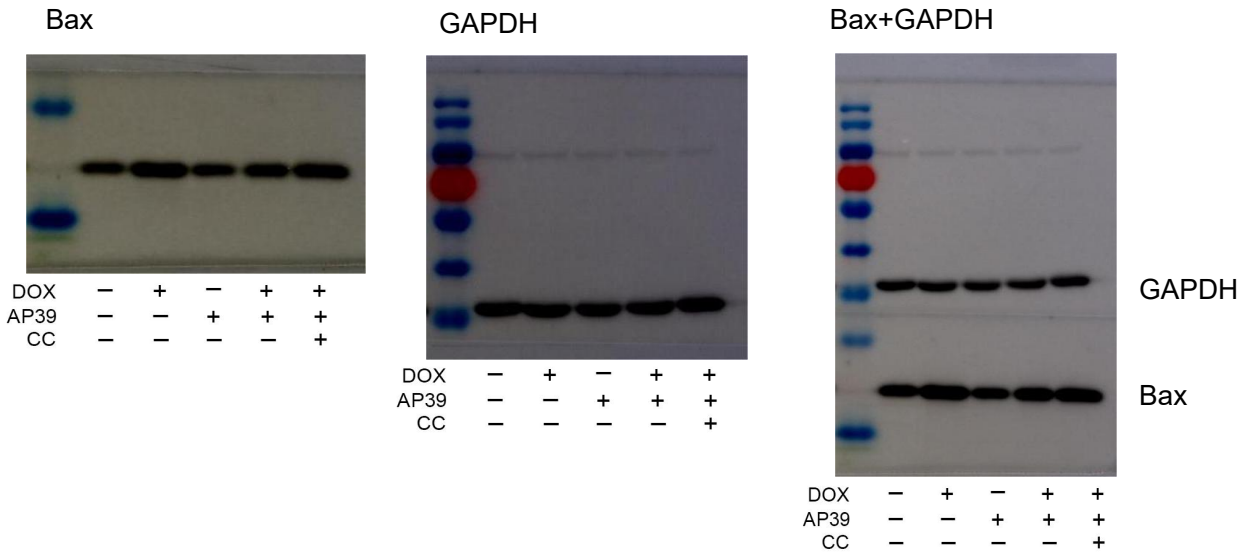


GAPDH

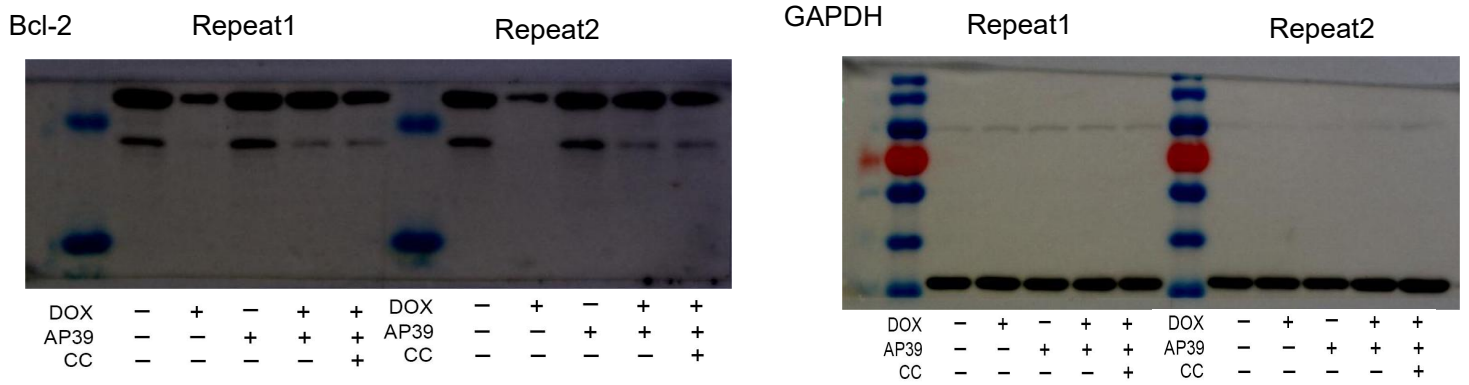
Bax

DOX	-	+	-	+	+
AP39	-	-	+	+	+
CC	-	-	-	-	+

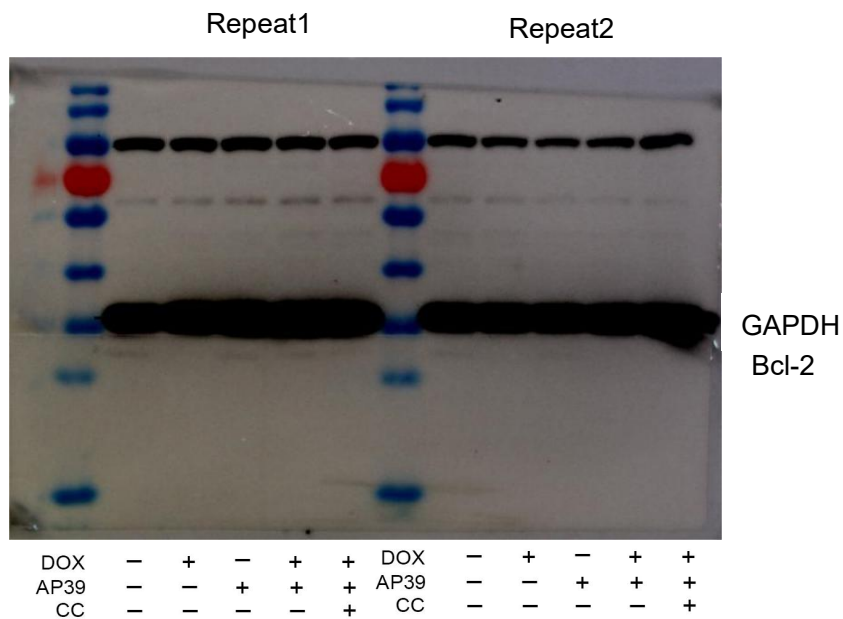
### Bax Repeat3



### Bcl-2 Repeat1+Repeat2



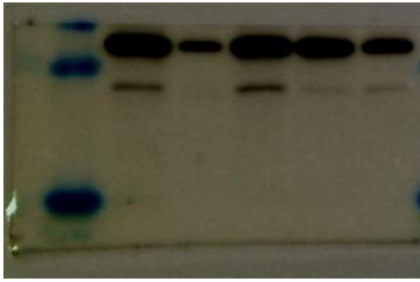
### Bcl-2+GAPDH





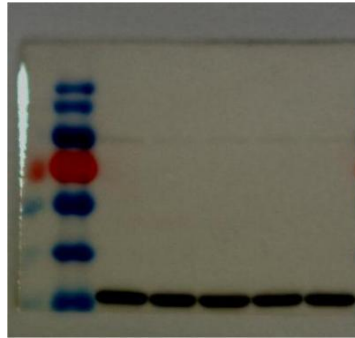
### Bcl-2 Repeat3

Bcl-2



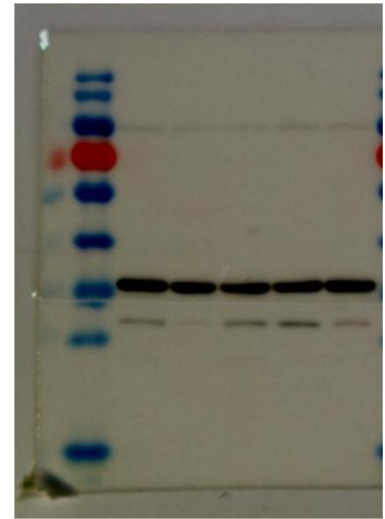
DOX	-	+	-	+	+
AP39	-	-	+	+	+
CC	-	-	-	-	+

GAPDH



DOX	-	+	-	+	+
AP39	-	-	+	+	+
CC	-	-	-	-	+

Bcl-2+GAPDH

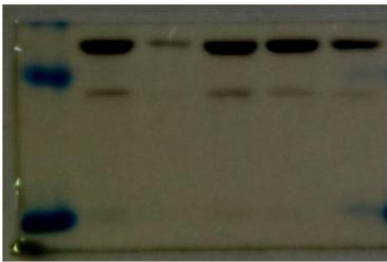


GAPDH  
Bcl-2

DOX	-	+	-	+	+
AP39	-	-	+	+	+
CC	-	-	-	-	+

### Bcl-2 Repeat4

Bcl-2



DOX	-	+	-	+	+
AP39	-	-	+	+	+
CC	-	-	-	-	+

GAPDH



DOX	-	+	-	+	+
AP39	-	-	+	+	+
CC	-	-	-	-	+

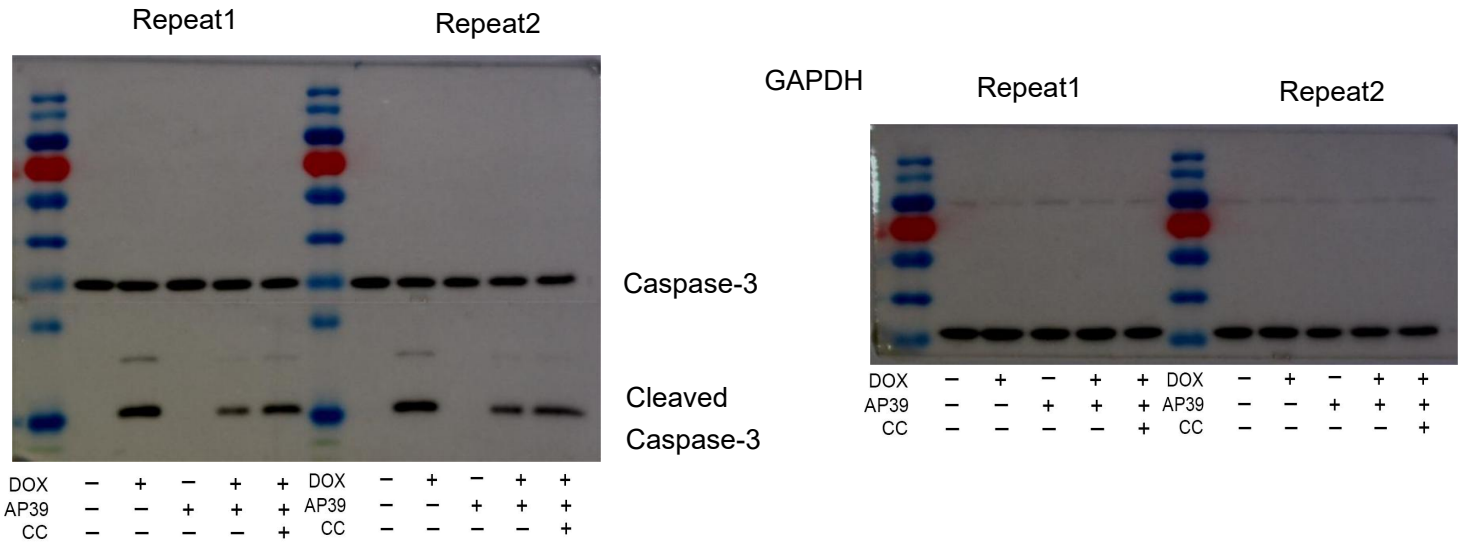
Bcl-2+GAPDH



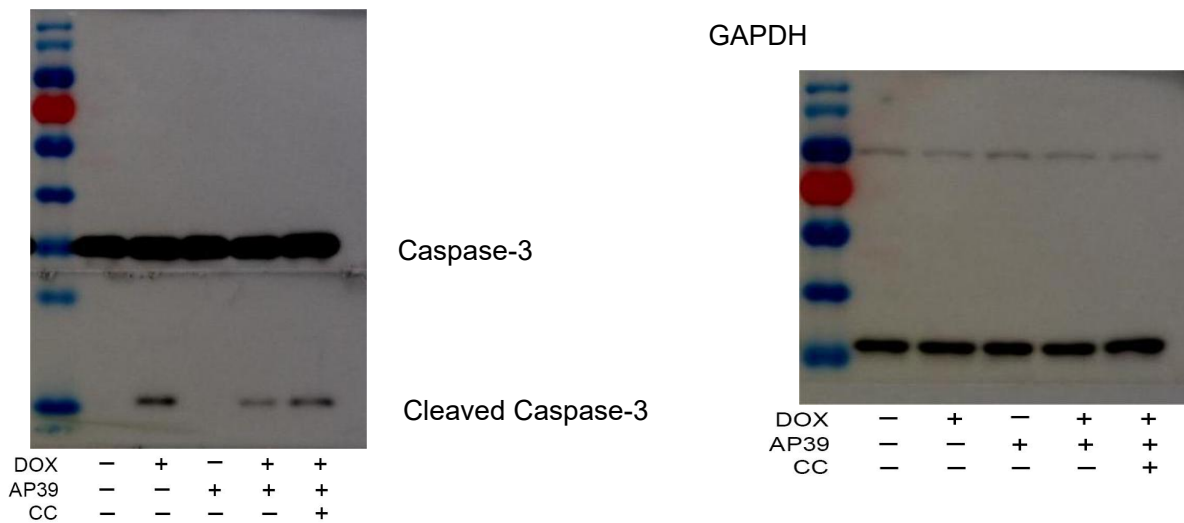
GAPDH  
Bcl-2

DOX	-	+	-	+	+
AP39	-	-	+	+	+
CC	-	-	-	-	+

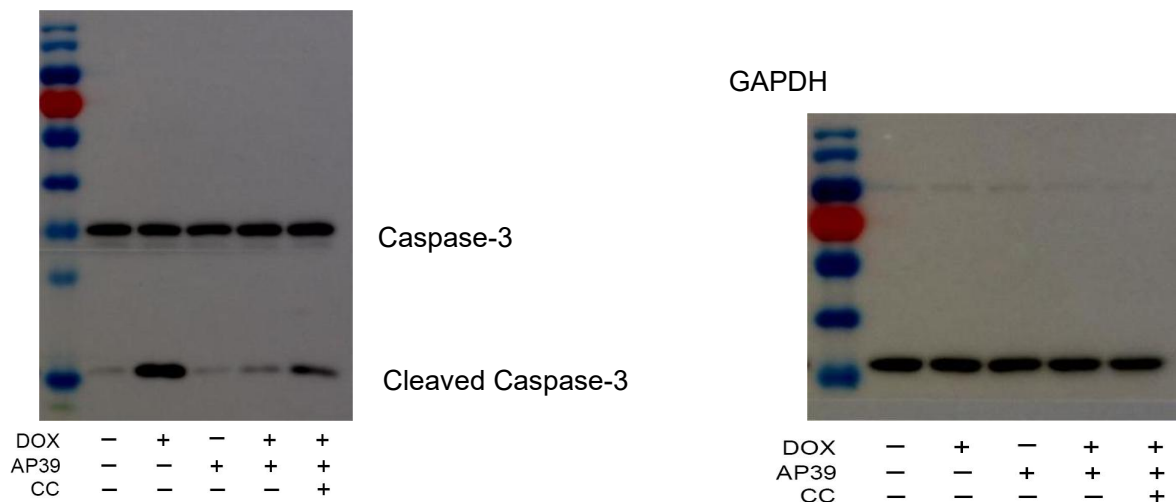
### Cleaved Caspase-3 and Caspase-3 Repeat1+Repeat2



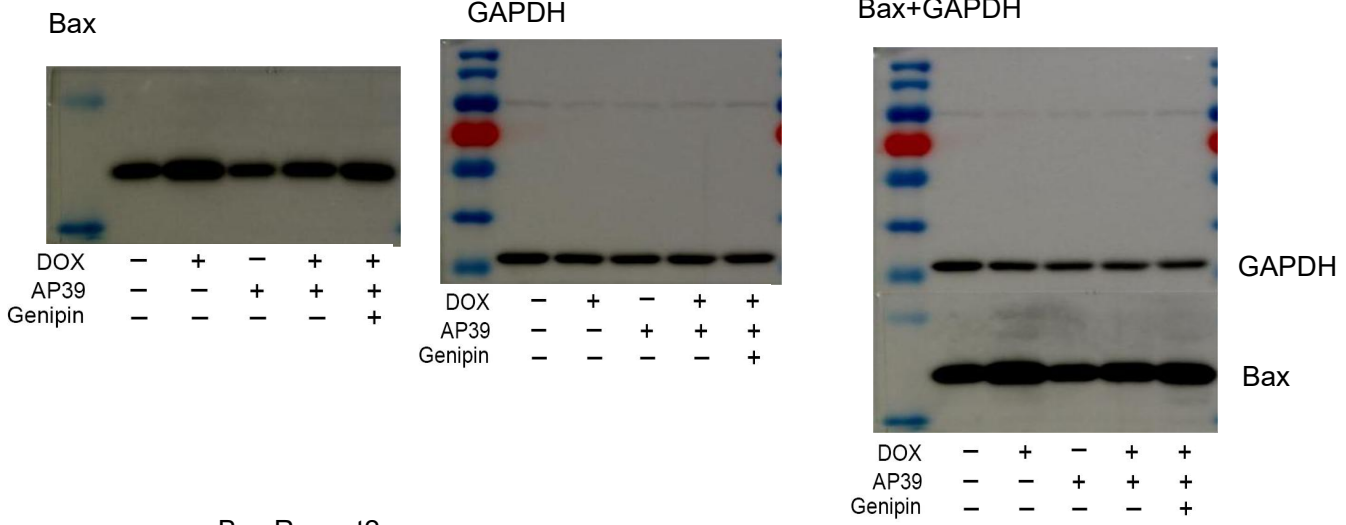
### Cleaved Caspase-3 and Caspase-3 Repeat3



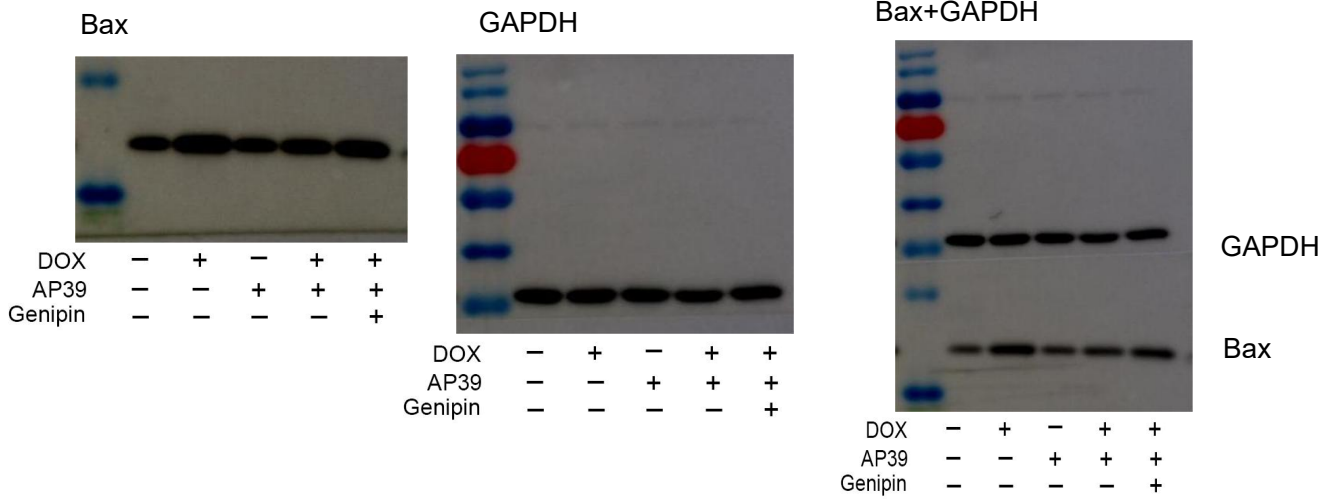
### Cleaved Caspase-3 and Caspase-3 Repeat4



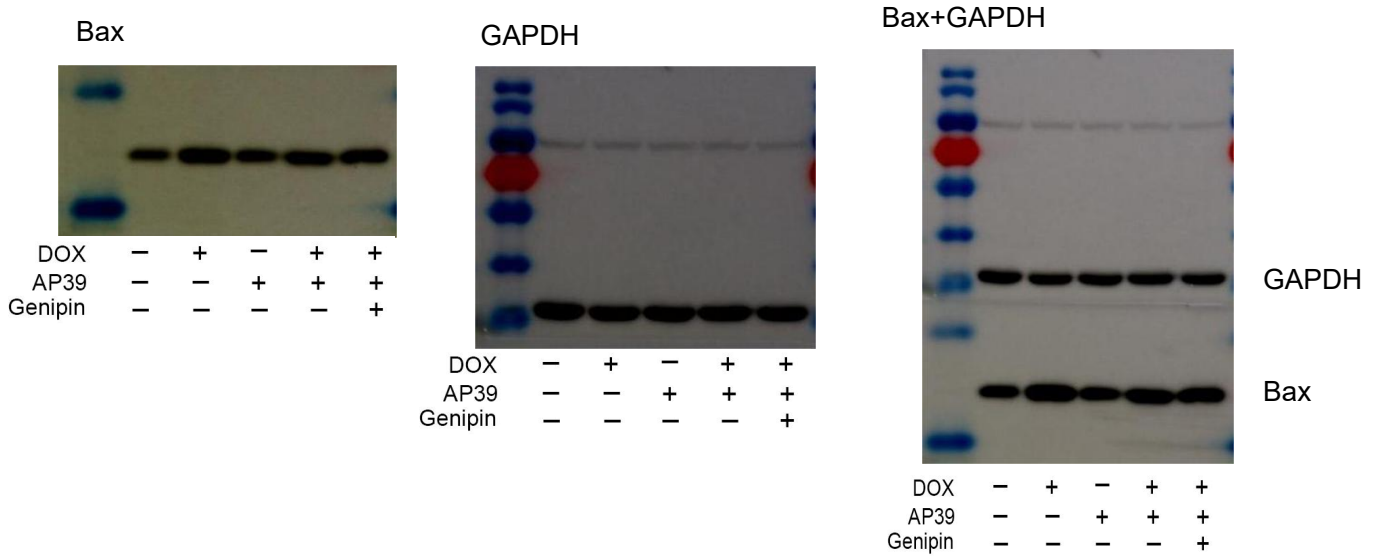
### Bax Repeat1



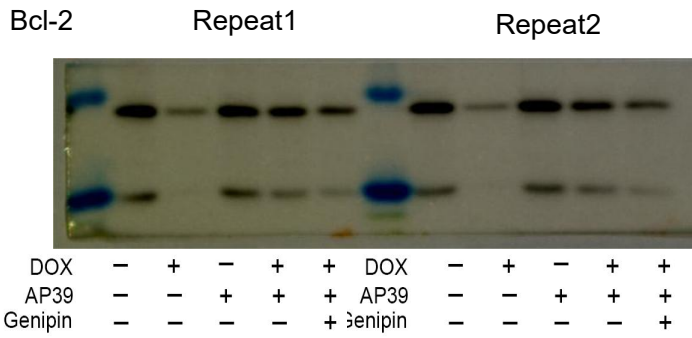
### Bax Repeat2



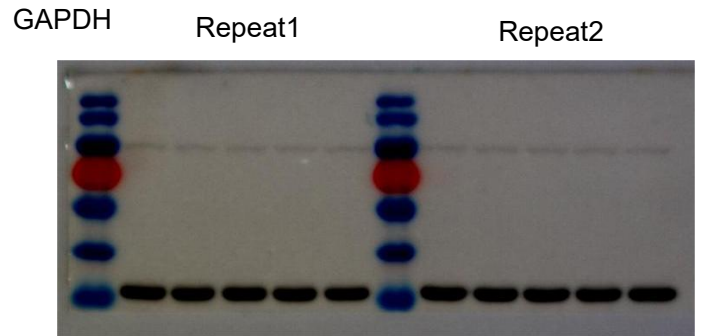
### Bax Repeat3



Bcl-2 Repeat1+Repeat2

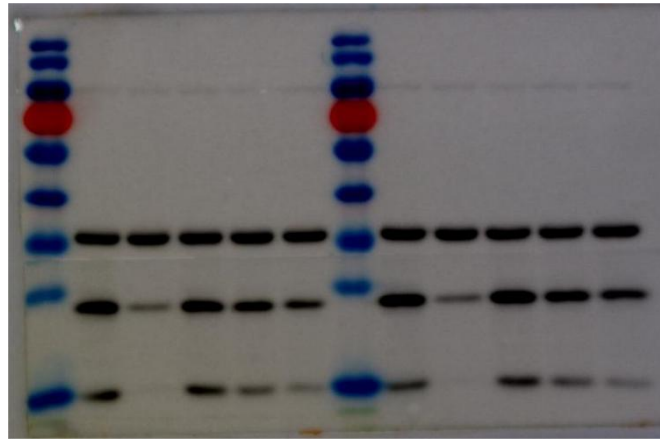


	Repeat1					Repeat2					
DOX	-	+	-	+	+	DOX	-	+	-	+	+
AP39	-	-	+	+	+	AP39	-	-	+	+	+
Genipin	-	-	-	-	+	Genipin	-	-	-	-	+



	Repeat1					Repeat2					
DOX	-	+	-	+	+	DOX	-	+	-	+	+
AP39	-	-	+	+	+	AP39	-	-	+	+	+
Genipin	-	-	-	-	+	Genipin	-	-	-	-	+

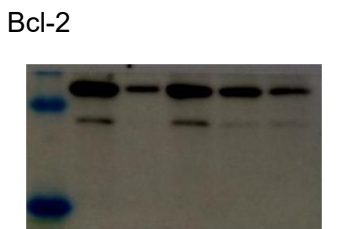
Bcl-2+GAPDH Repeat1 Repeat2



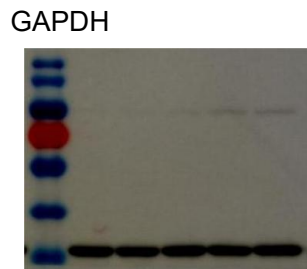
	Repeat1					Repeat2					
DOX	-	+	-	+	+	DOX	-	+	-	+	+
AP39	-	-	+	+	+	AP39	-	-	+	+	+
Genipin	-	-	-	-	+	Genipin	-	-	-	-	+

GAPDH  
Bcl-2

Bcl-2 Repeat3



DOX	-	+	-	+	+
AP39	-	-	+	+	+
Genipin	-	-	-	-	+



DOX	-	+	-	+	+
AP39	-	-	+	+	+
Genipin	-	-	-	-	+



DOX	-	+	-	+	+
AP39	-	-	+	+	+
Genipin	-	-	-	-	+

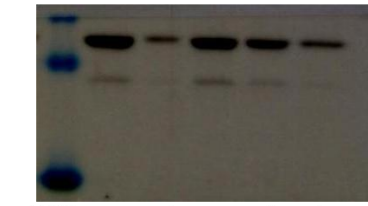
GAPDH  
Bcl-2

### Bcl-2 Repeat4

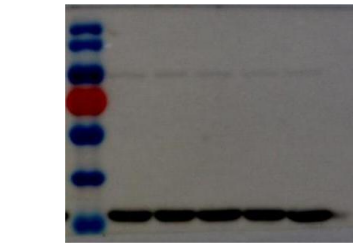
Bcl-2

GAPDH

Bcl-2+GAPDH



DOX	-	+	-	+	+
AP39	-	-	+	+	+
Genipin	-	-	-	-	+



DOX	-	+	-	+	+
AP39	-	-	+	+	+
Genipin	-	-	-	-	+



GAPDH  
Bcl-2

DOX	-	+	-	+	+
AP39	-	-	+	+	+
Genipin	-	-	-	-	+

### Cleaved Caspase-3 and Caspase-3 Repeat 1+Repeat2

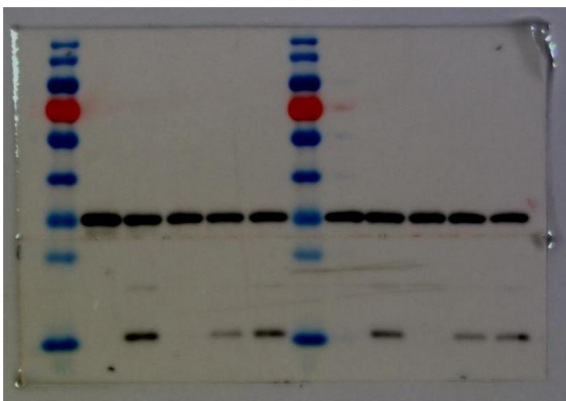
Repeat1

Repeat2

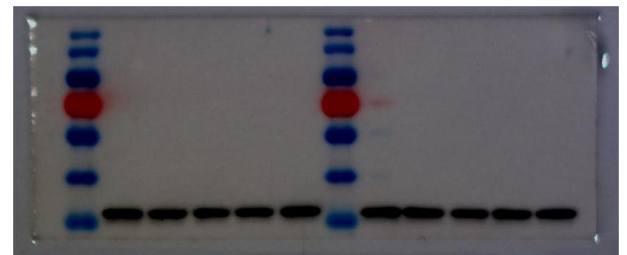
GAPDH

Repeat1

Repeat2

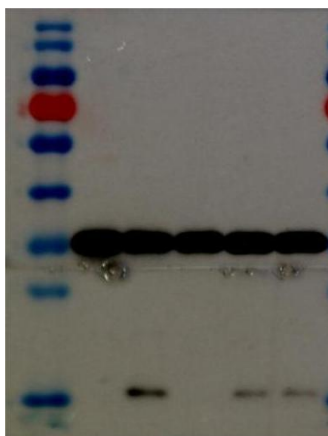


DOX	-	+	-	+	+
AP39	-	-	+	+	+
Genipin	-	-	-	-	+



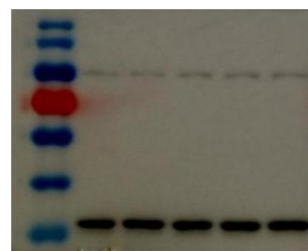
DOX	-	+	-	+	+
AP39	-	-	+	+	+
Genipin	-	-	-	-	+

### Cleaved Caspase-3 and Caspase-3 Repeat 3



DOX	-	+	-	+	+
AP39	-	-	+	+	+
Genipin	-	-	-	-	+

GAPDH



DOX	-	+	-	+	+
AP39	-	-	+	+	+
Genipin	-	-	-	-	+



### Cleaved Caspase-3 and Caspase-3 Repeat 4

