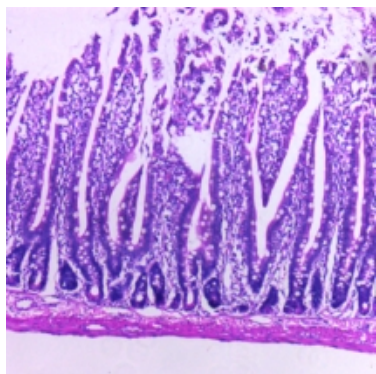


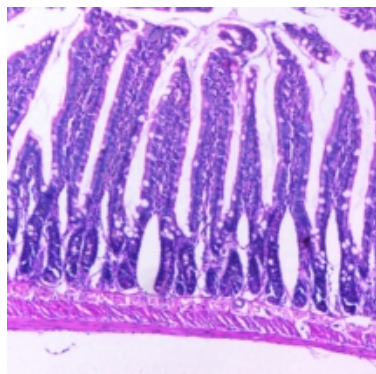
Supplemental Table1. The information for each antibody used in the present work.

Antibody	Source	Dilutions	Catalog Number	Company
β -actin	Rabbit	1:2000	20536-1-AP	Proteintech, Wuhan, China
p-JAK2	Rabbit	1:500	AP0531	Abclonal, Woburn, USA
JAK2	Rabbit	1:1000	A7694	Abclonal, Woburn, USA
p-STAT3	Rabbit	1:1000	AP0070	Abclonal, Woburn, USA
STAT3	Rabbit	1:1000	A1192	Abclonal, Woburn, USA
occludin	Rabbit	1:1000	13409-1-AP	Proteintech, Wuhan, China
ZO-1	Rabbit	1:1000	sc-10804	Santa Cruz, CA, USA
Bcl-2	Rabbit	1:1000	12789-1-AP	Proteintech, Wuhan, China
Bax	Rabbit	1:1000	50599-2-Ig	Proteintech, Wuhan, China
cleaved caspase3	Rabbit	1:1000	25546-1-AP	Proteintech, Wuhan, China

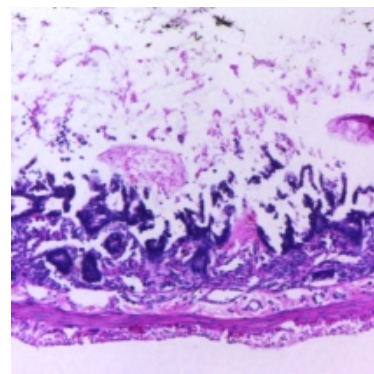
Rat



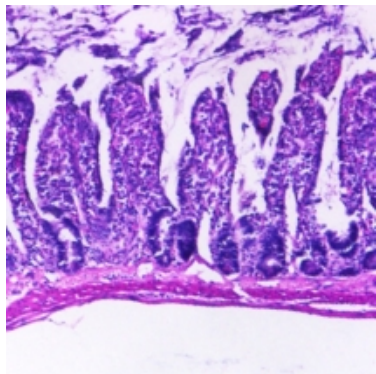
1



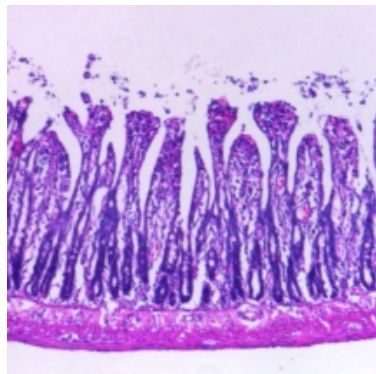
2



3



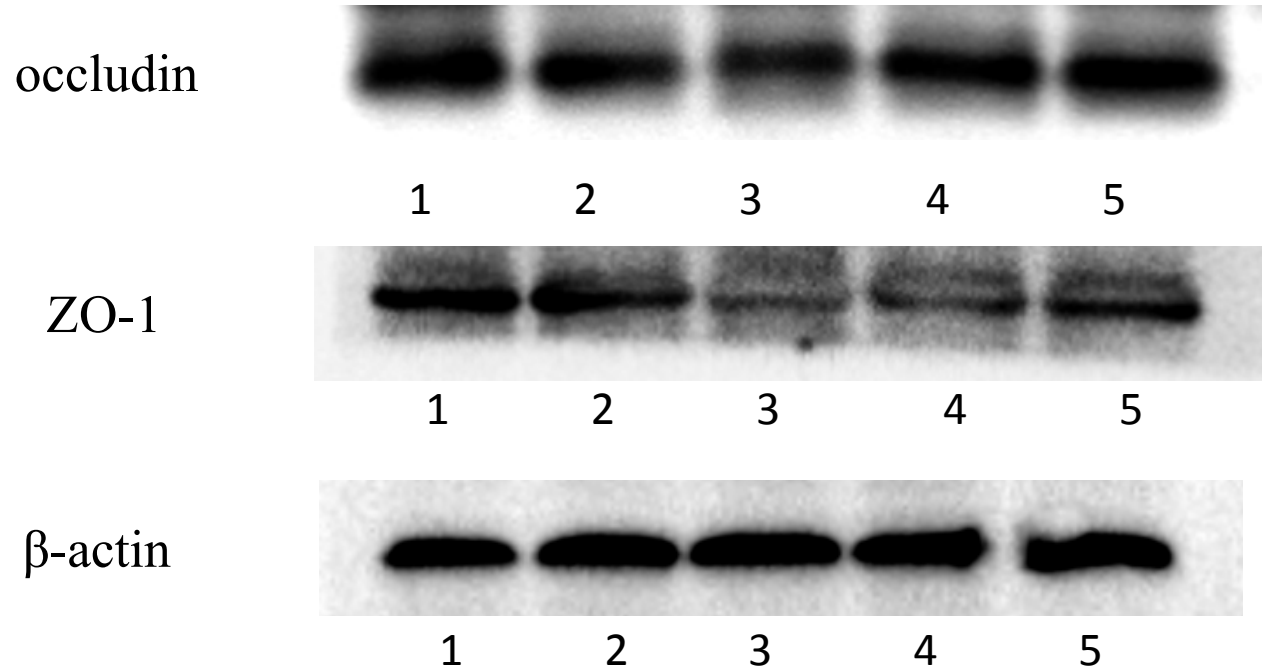
4



5

1: Sham 2: catalpol(H)+Sham 3: I/R 4: catalpol(L)+I/R 5: catalpol(H)+I/R

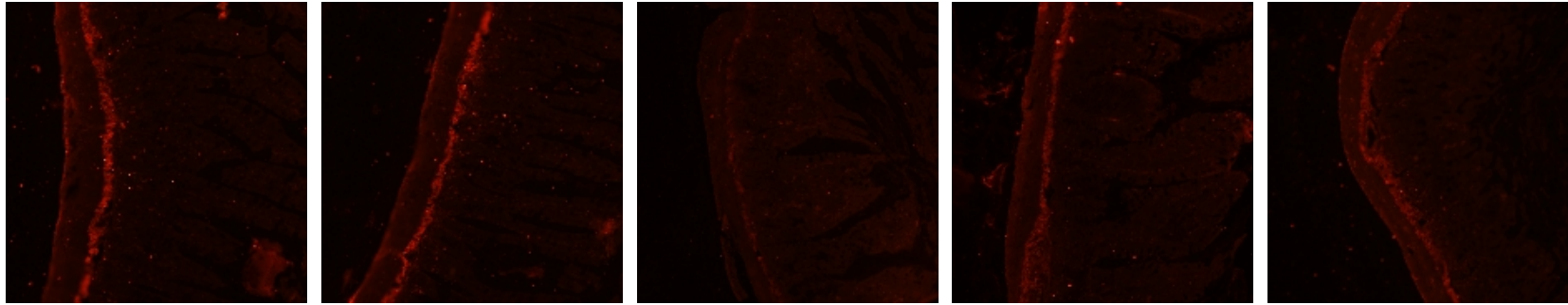
Rat



1: Sham 2: catalpol(H)+Sham 3: I/R 4: catalpol(L)+I/R 5: catalpol(H)+I/R

Rat

occludin



1

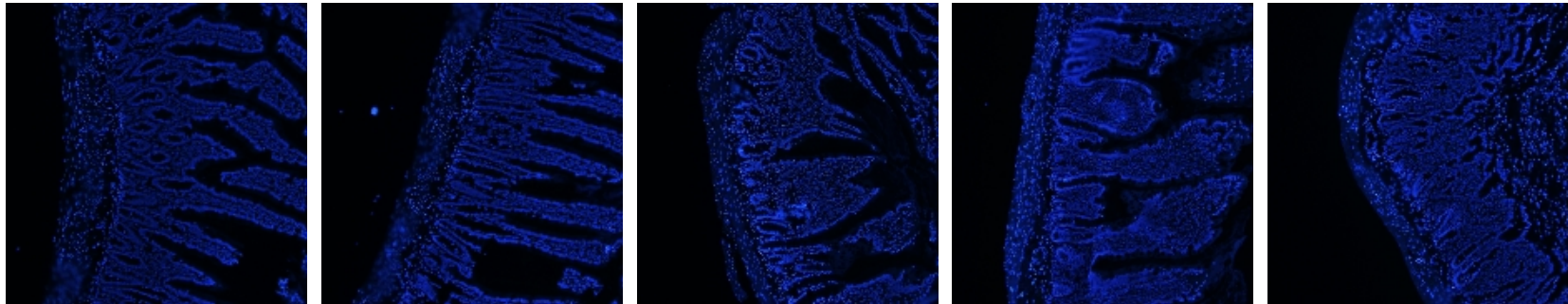
2

3

4

5

DAPI



1

2

3

4

5

1: Sham

2: catalpol(H)+Sham

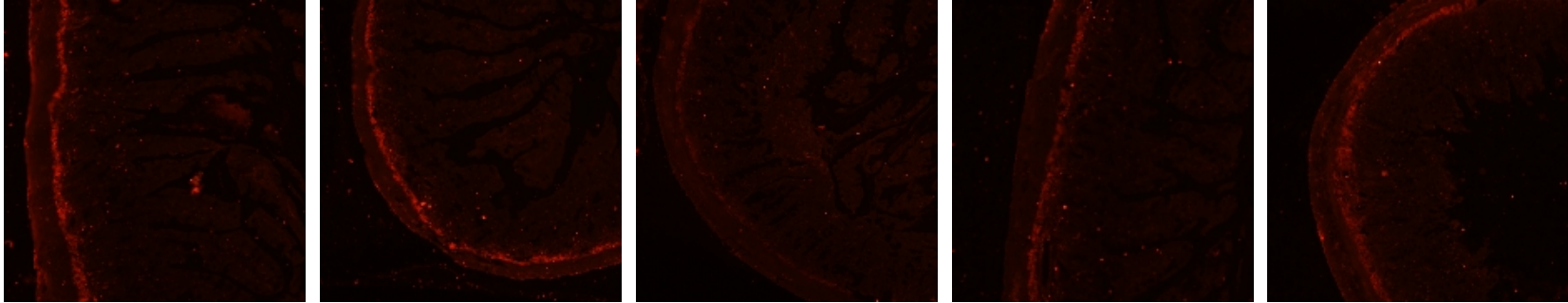
3: I/R

4: catalpol(L)+I/R

5: catalpol(H)+I/R

Rat

ZO-1



1

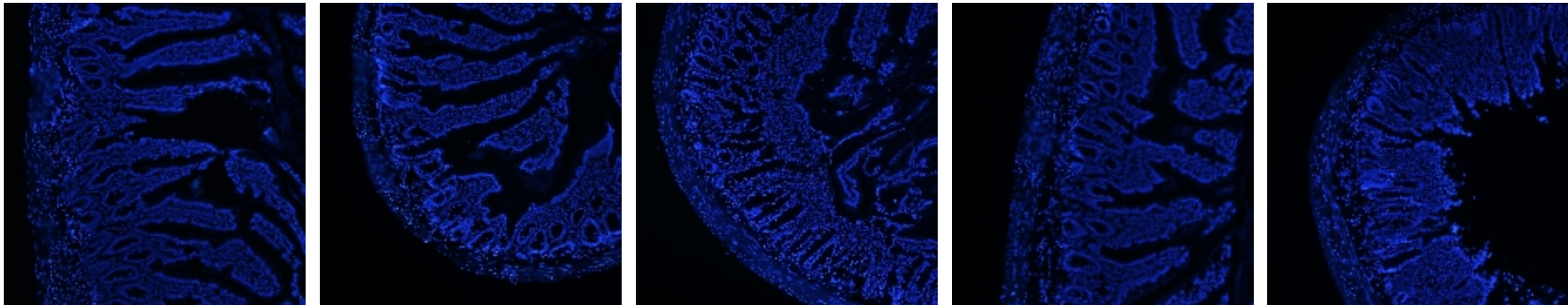
2

3

4

5

DAPI



1

2

3

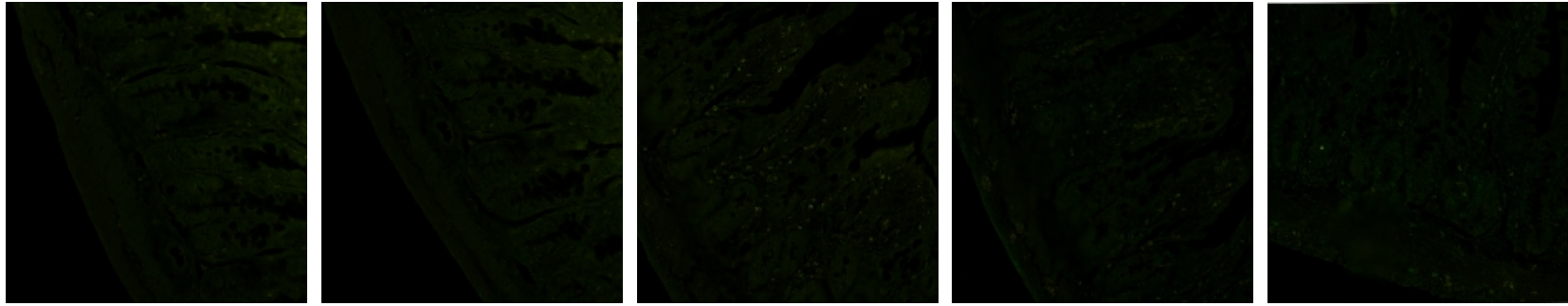
4

5

1: Sham 2: catalpol(H)+Sham 3: I/R 4: catalpol(L)+I/R 5: catalpol(H)+I/R

Rat

TUNEL



1

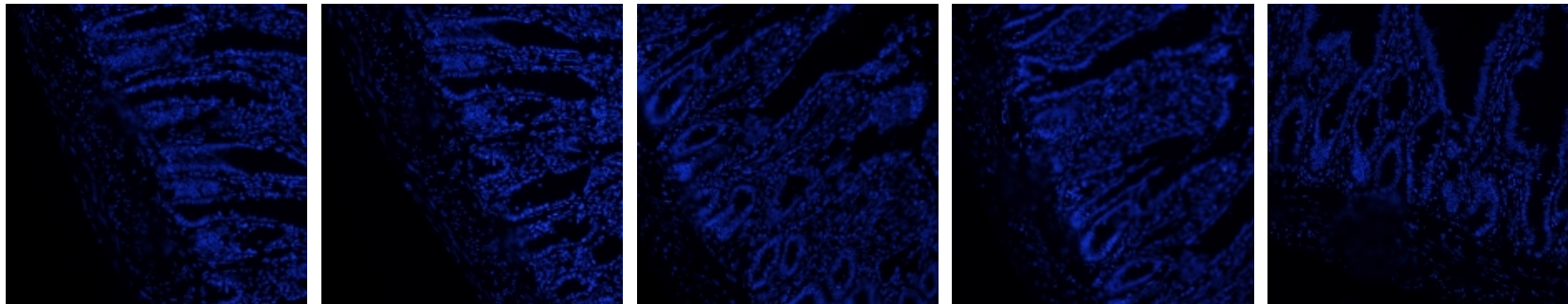
2

3

4

5

DAPI



1

2

3

4

5

1: Sham 2: catalpol(H)+Sham 3: I/R 4: catalpol(L)+I/R 5: catalpol(H)+I/R

Rat

P-JAK2



1

2

3

4

5

JAK2



1

2

3

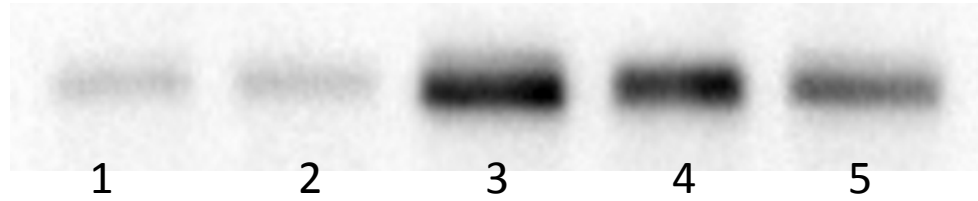
4

5

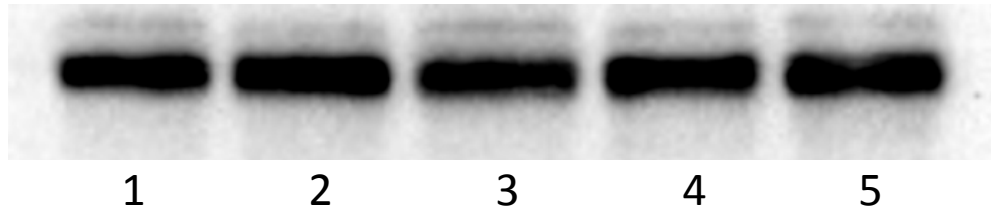
1: Sham 2: catalpol(H)+Sham 3: I/R 4: catalpol(L)+I/R 5: catalpol(H)+I/R

Rat

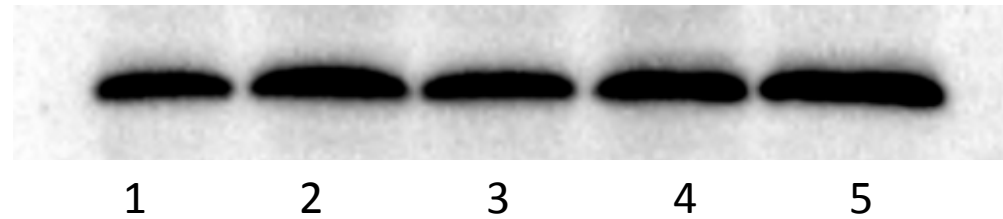
P-STAT3



STAT3



β -actin



1: Sham 2: catalpol(H)+Sham 3: I/R 4: catalpol(L)+I/R 5: catalpol(H)+I/R

Rat

Bcl-2



1

2

3

4

5

Bax



1

2

3

4

5

1: Sham

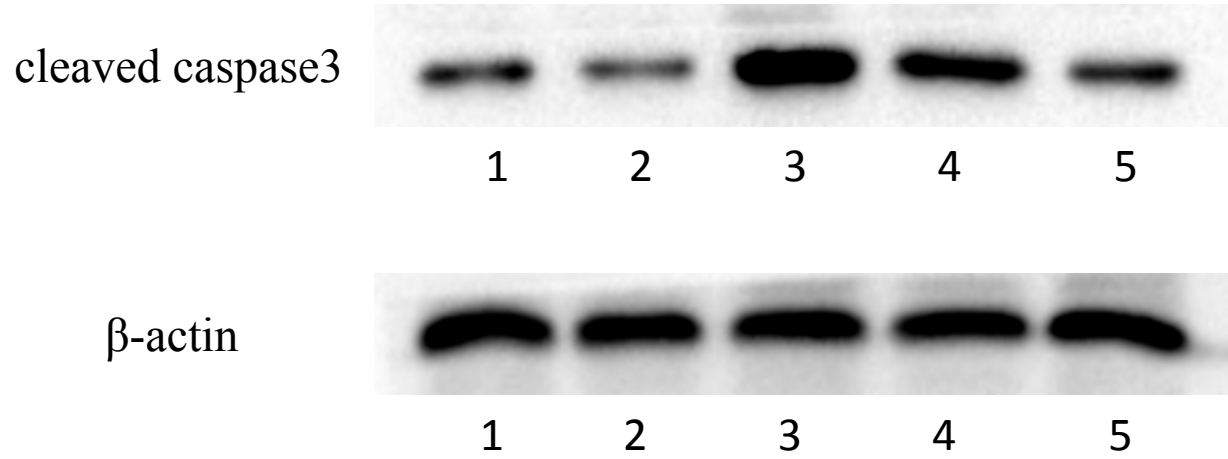
2: catalpol(H)+Sham

3: I/R

4: catalpol(L)+I/R

5: catalpol(H)+I/R

Rat



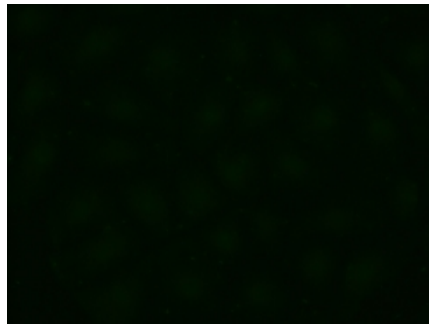
1: Sham 2: catalpol(H)+Sham 3: I/R 4: catalpol(L)+I/R 5: catalpol(H)+I/R

Cell

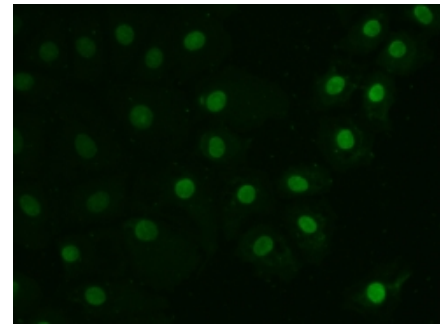
TUNEL



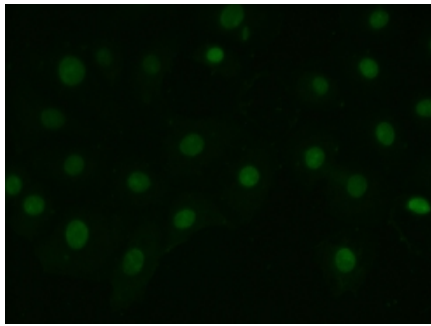
1



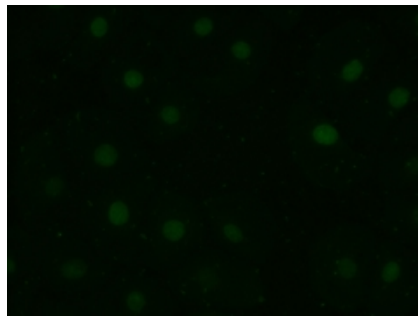
2



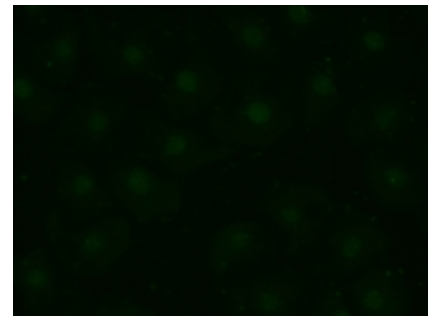
3



4



5

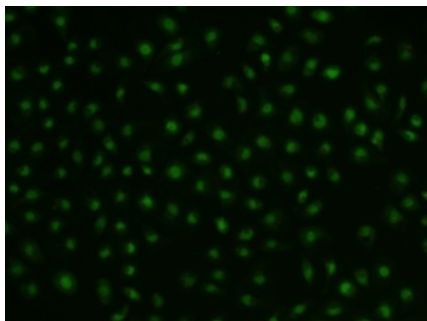


6

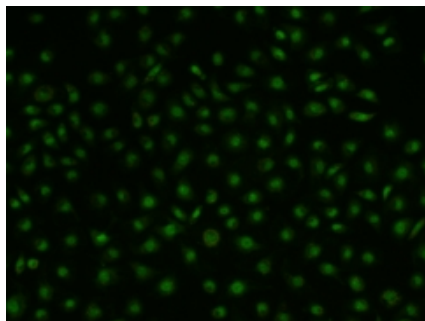
	1	2	3	4	5	6
catalpol(μ M)	<input type="checkbox"/>	40	<input type="checkbox"/>	10	20	40
H/R	<input type="checkbox"/>	<input type="checkbox"/>	+	+	+	+

Cell

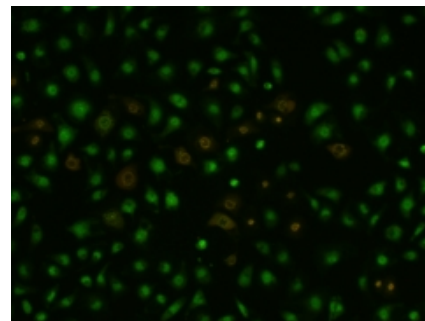
AO/EB



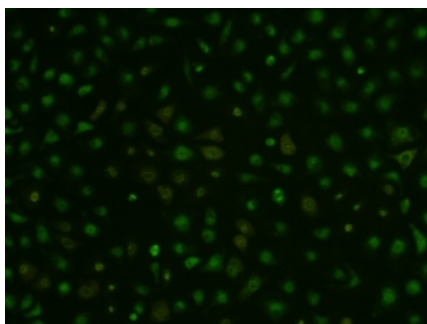
1



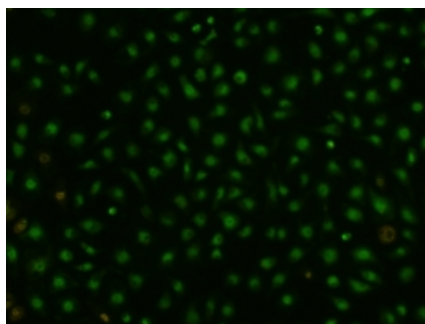
2



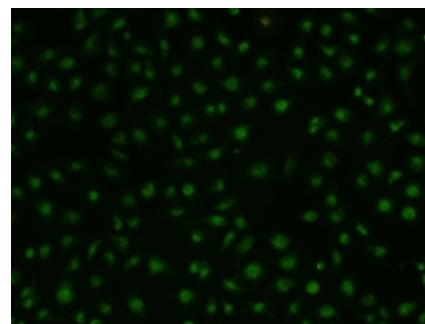
3



4



5

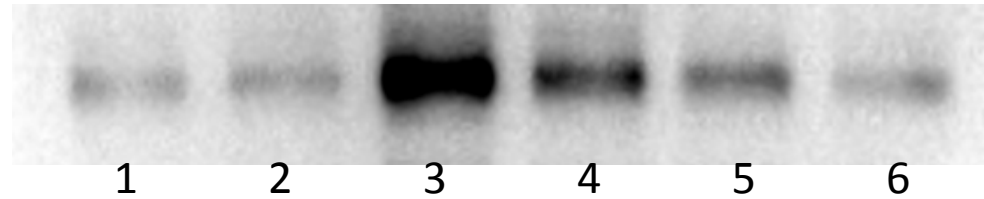


6

	1	2	3	4	5	6
catalpol(μM)	□	40	□	10	20	40
H/R	□	□	+	+	+	+

Cell

P-JAK2

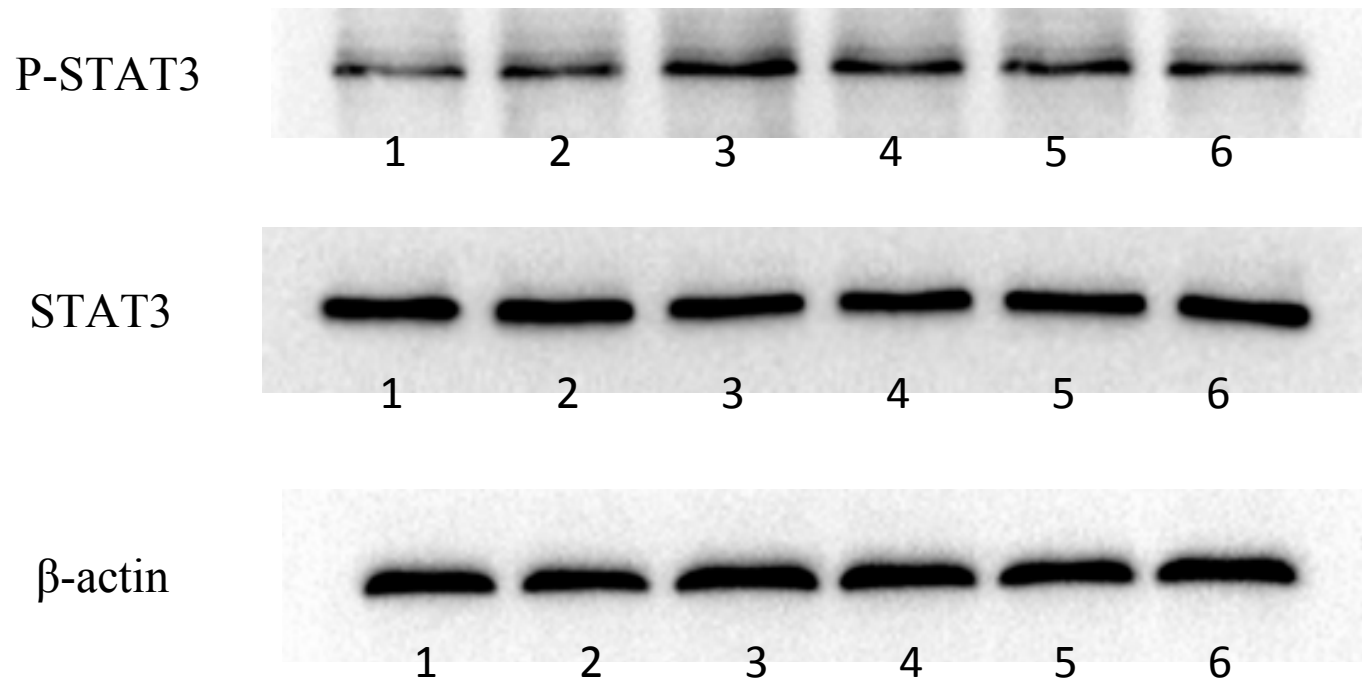


JAK2



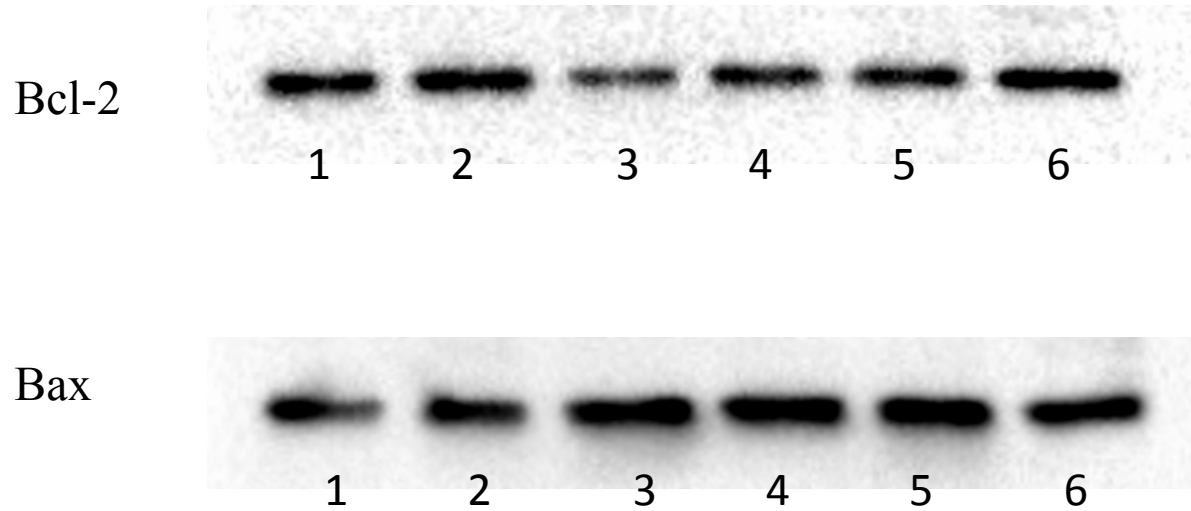
	1	2	3	4	5	6
catalpol(μ M)	<input type="checkbox"/>	40	<input type="checkbox"/>	10	20	40
H/R	<input type="checkbox"/>	<input type="checkbox"/>	+	+	+	+

Cell



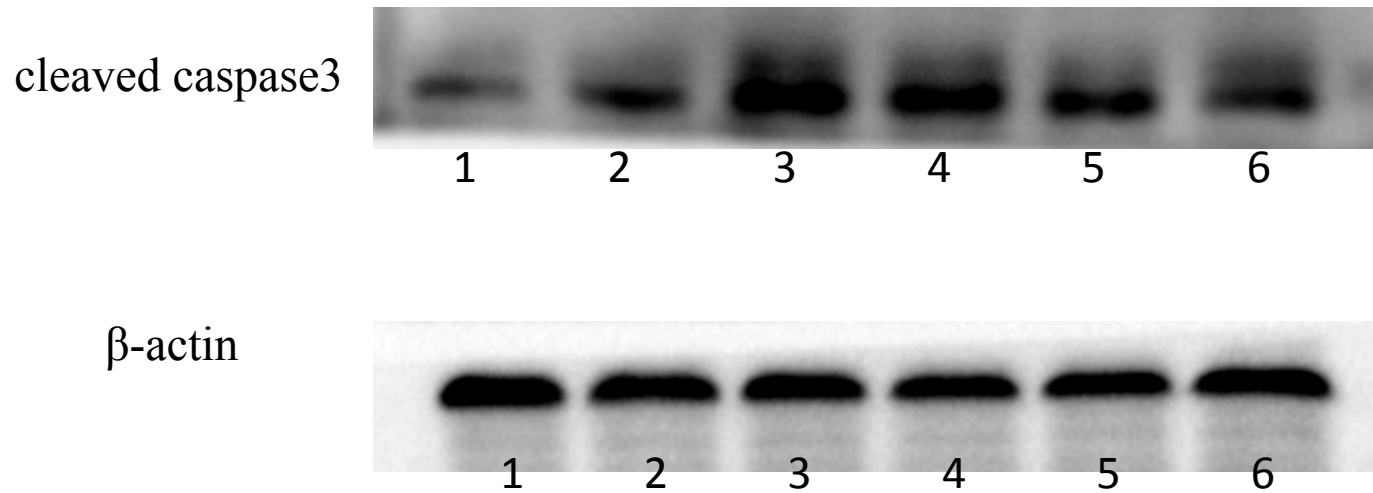
	1	2	3	4	5	6
catalpol(μ M)	<input type="checkbox"/>	40	<input type="checkbox"/>	10	20	40
H/R	<input type="checkbox"/>	<input type="checkbox"/>	+	+	+	+

Cell



	1	2	3	4	5	6
catalpol(μ M)	<input type="checkbox"/>	40	<input type="checkbox"/>	10	20	40
H/R	<input type="checkbox"/>	<input type="checkbox"/>	+	+	+	+

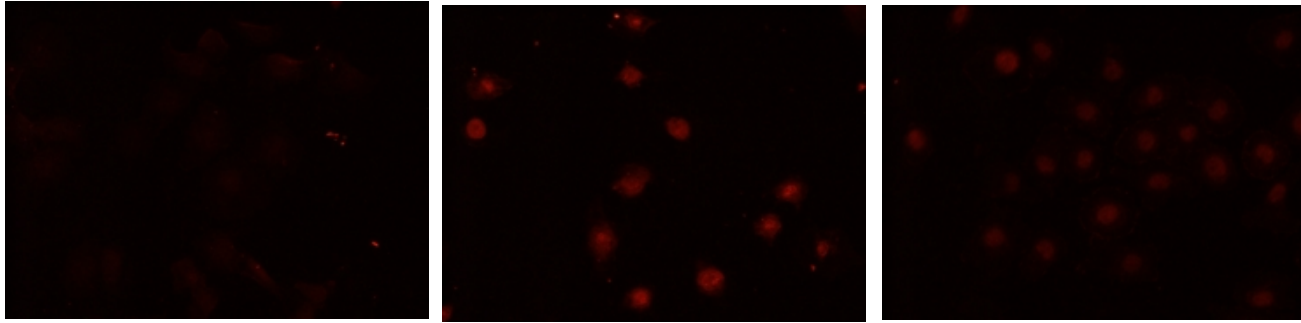
Cell



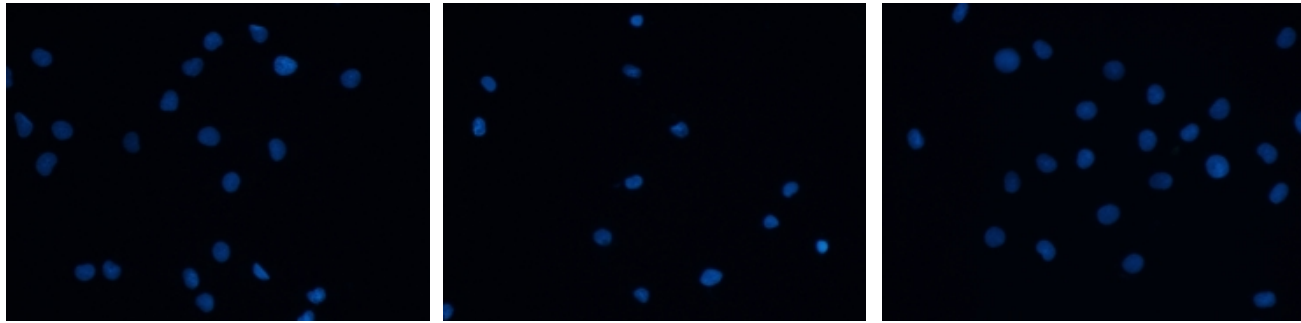
	1	2	3	4	5	6
catalpol(μ M)	<input type="checkbox"/>	40	<input type="checkbox"/>	10	20	40
H/R	<input type="checkbox"/>	<input type="checkbox"/>	+	+	+	+

Cell

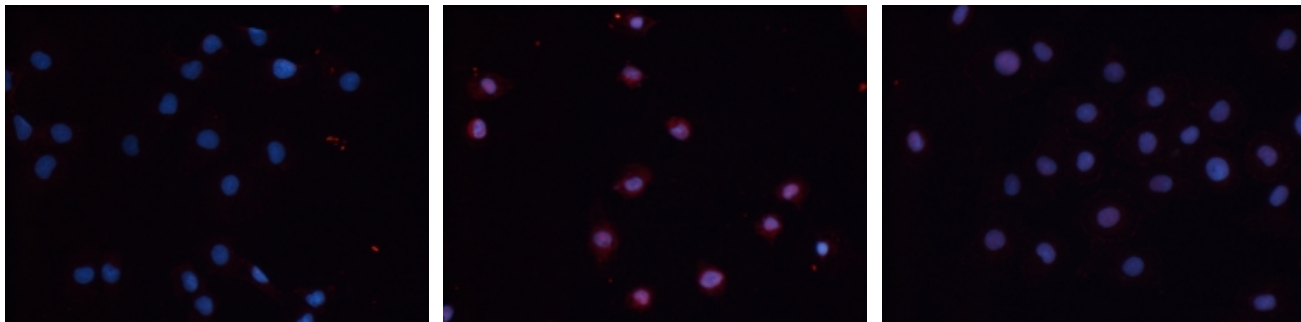
P-STAT3



DAPI



Merge



catalpol(μ M)

□

□

40

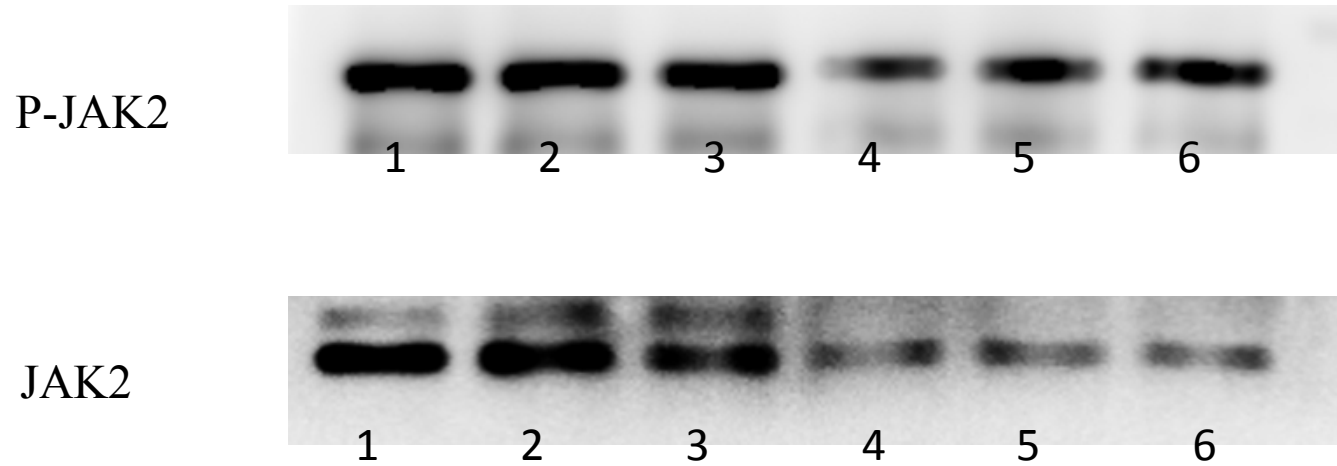
H/R

□

+

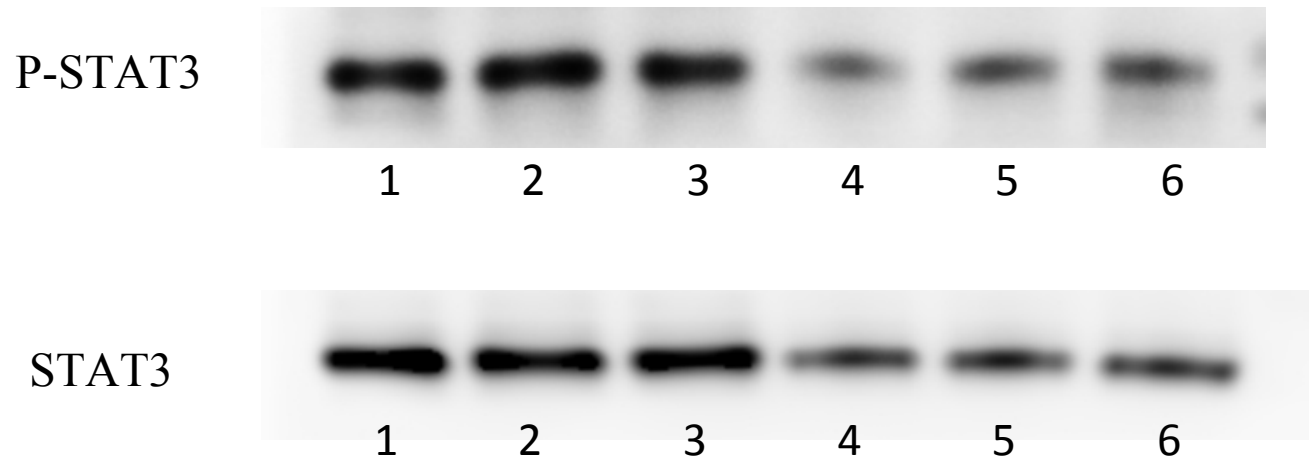
+

Cell



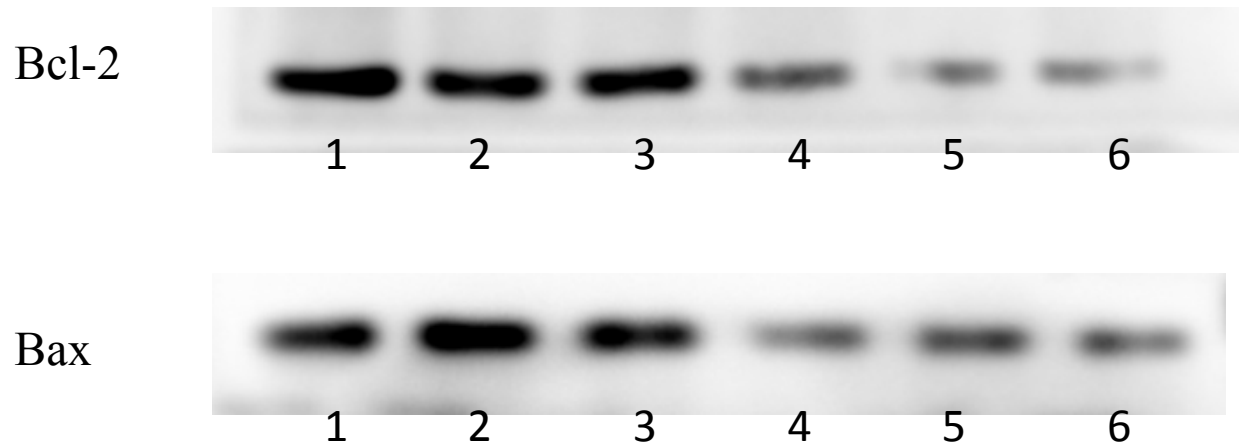
	1	2	3	4	5	6
control siRNA	+	+	+	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JAK2 siRNA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	+	+	+
catalpol(μ M)	<input type="checkbox"/>	<input type="checkbox"/>	40	<input type="checkbox"/>	<input type="checkbox"/>	40
H/R	<input type="checkbox"/>	+	+	<input type="checkbox"/>	+	+

Cell



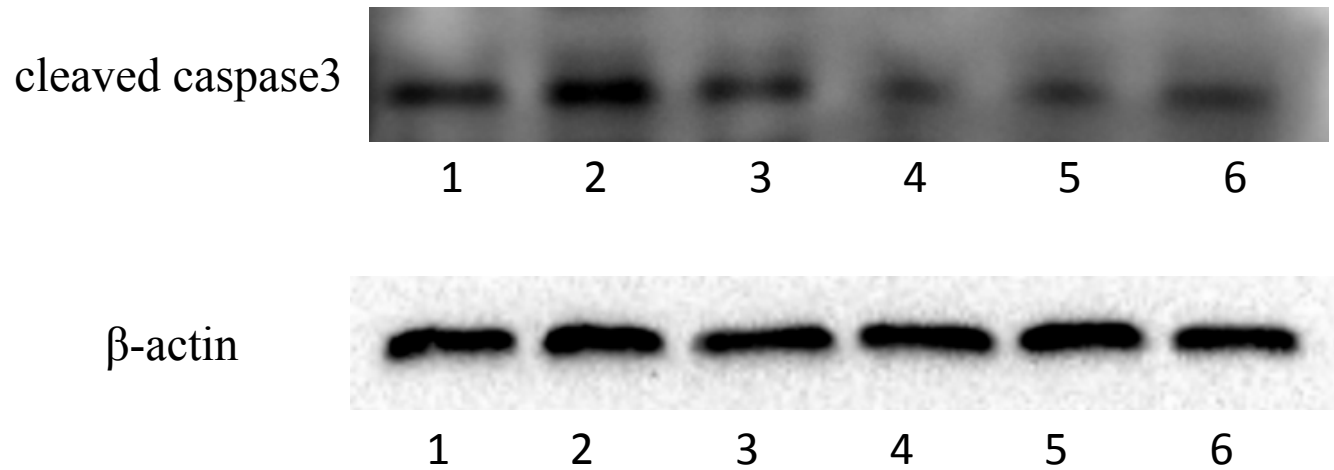
	1	2	3	4	5	6
control siRNA	+	+	+	□	□	□
JAK2 siRNA	□	□	□	+	+	+
catalpol(μM)	□	□	40	□	□	40
H/R	□	+	+	□	+	+

Cell



	1	2	3	4	5	6
control siRNA	+	+	+	□	□	□
JAK2 siRNA	□	□	□	+	+	+
catalpol(μ M)	□	□	40	□	□	40
H/R	□	+	+	□	+	+

Cell



	1	2	3	4	5	6
control siRNA	+	+	+	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JAK2 siRNA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	+	+	+
catalpol(μ M)	<input type="checkbox"/>	<input type="checkbox"/>	40	<input type="checkbox"/>	<input type="checkbox"/>	40
H/R	<input type="checkbox"/>	+	+	<input type="checkbox"/>	+	+