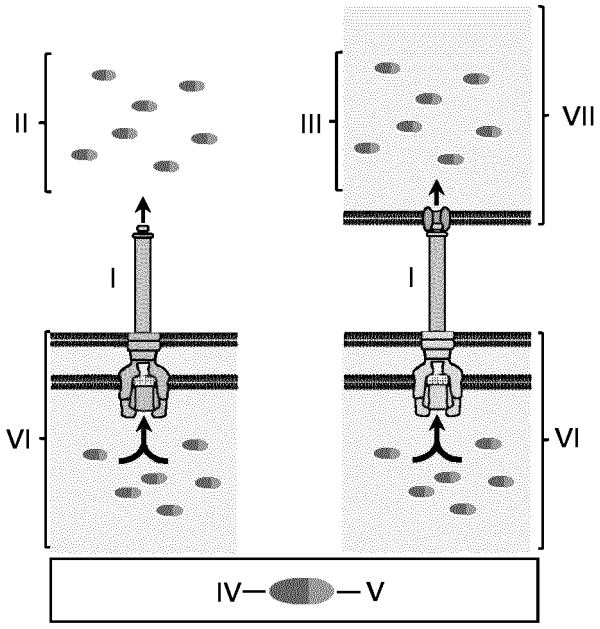
Figure 1

A



B

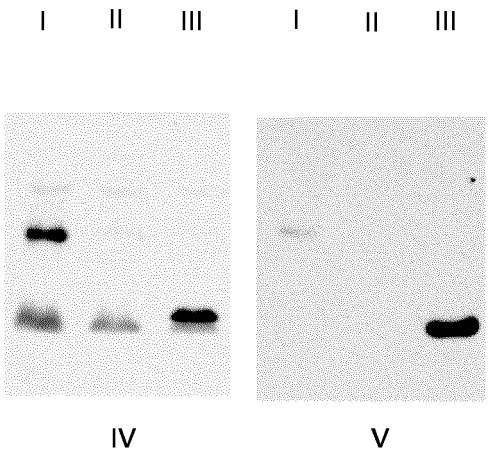
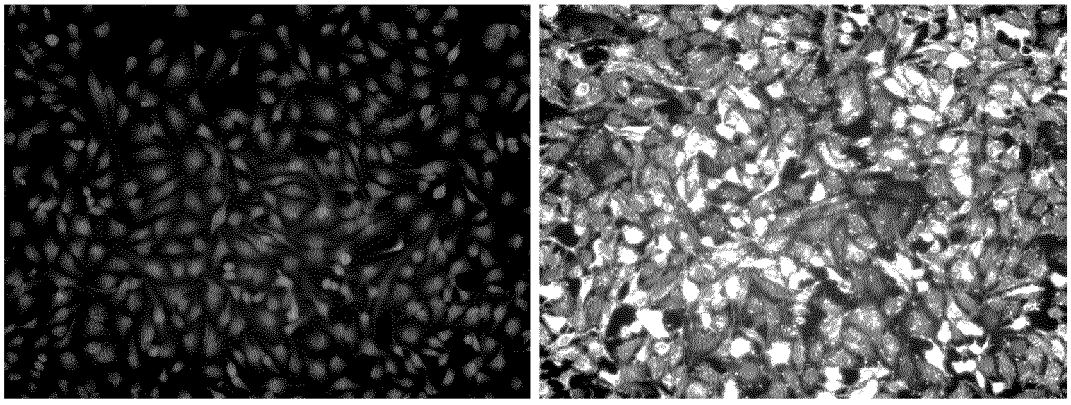
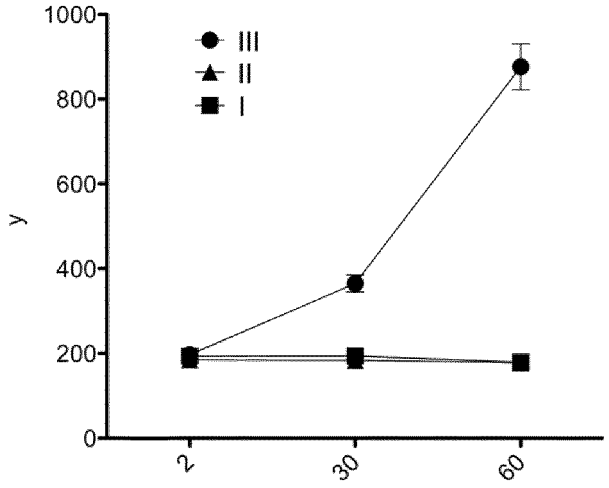


Figure 2

A


I
II

B


1000
800
600
400
200
0
y
III
II
I
2
30
60

C

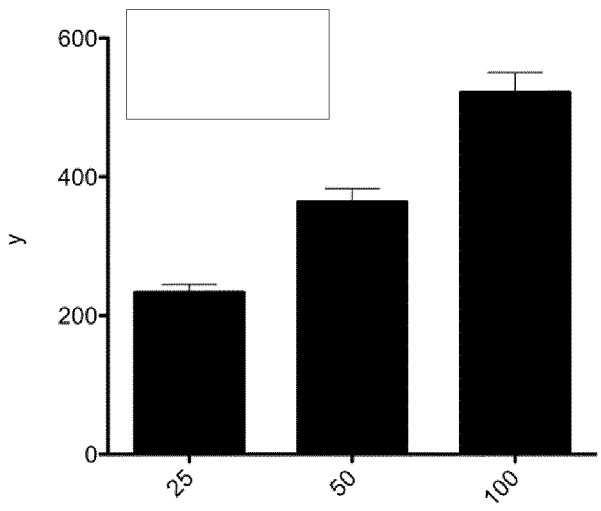

600
400
200
0
y
25
50
100

Figure 3

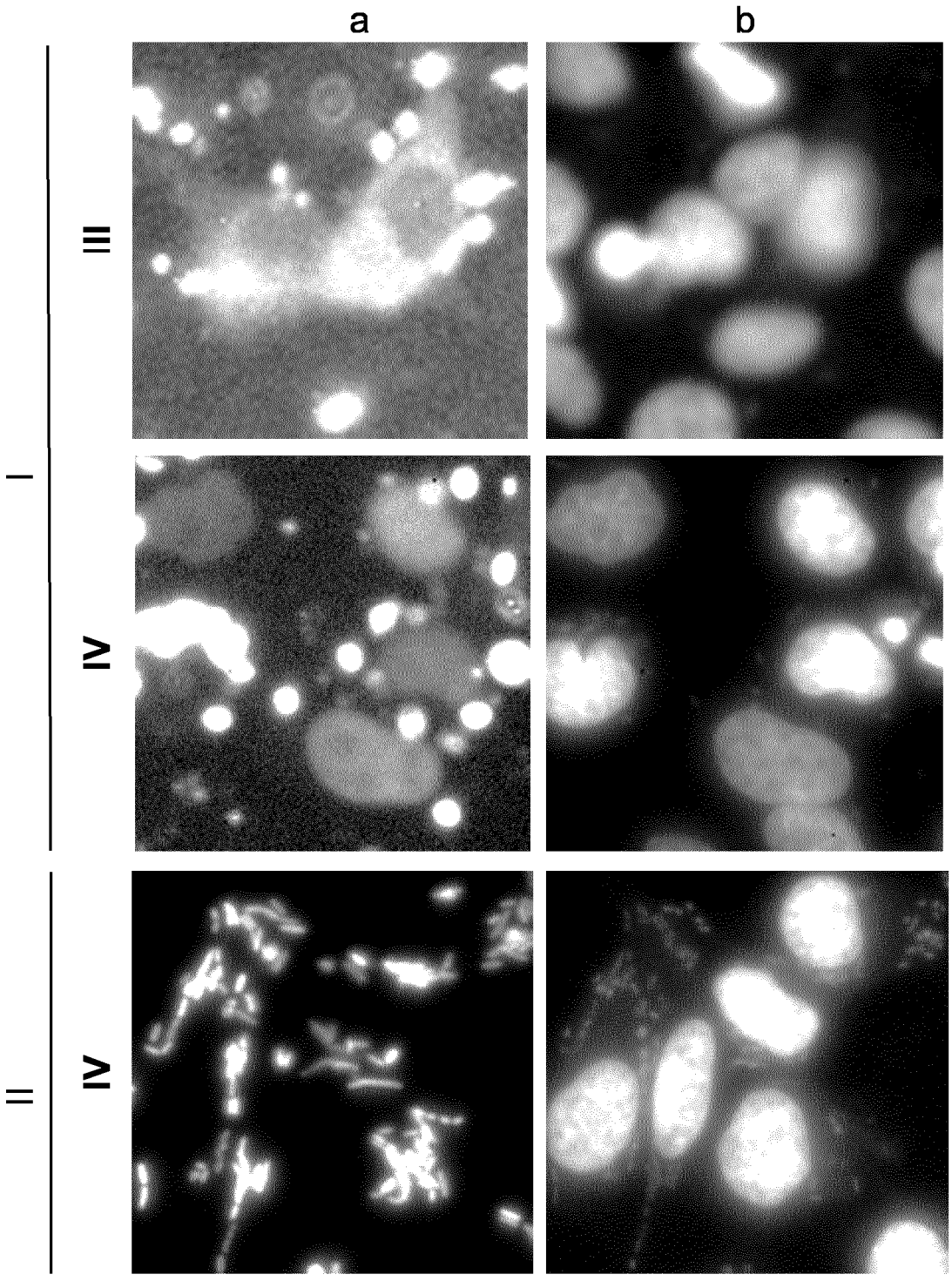


Figure 4

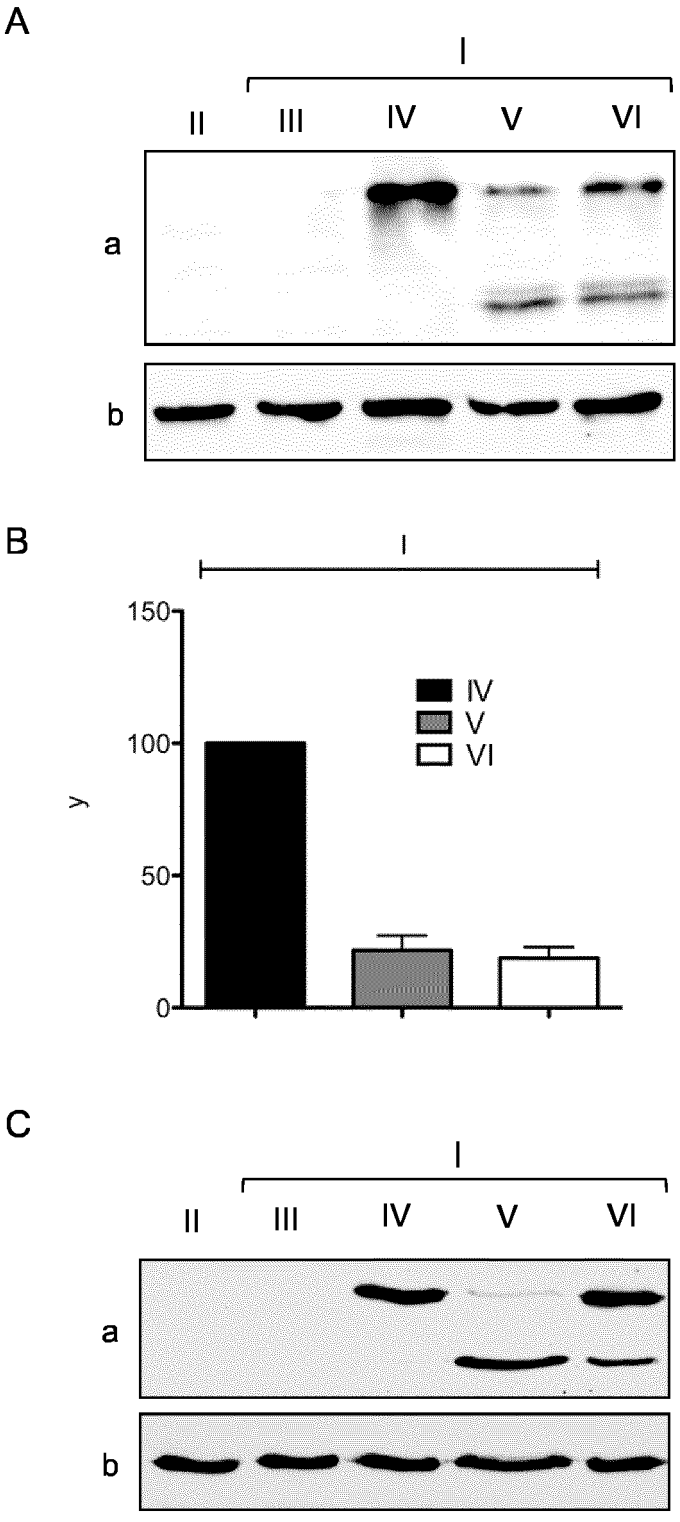


Figure 5

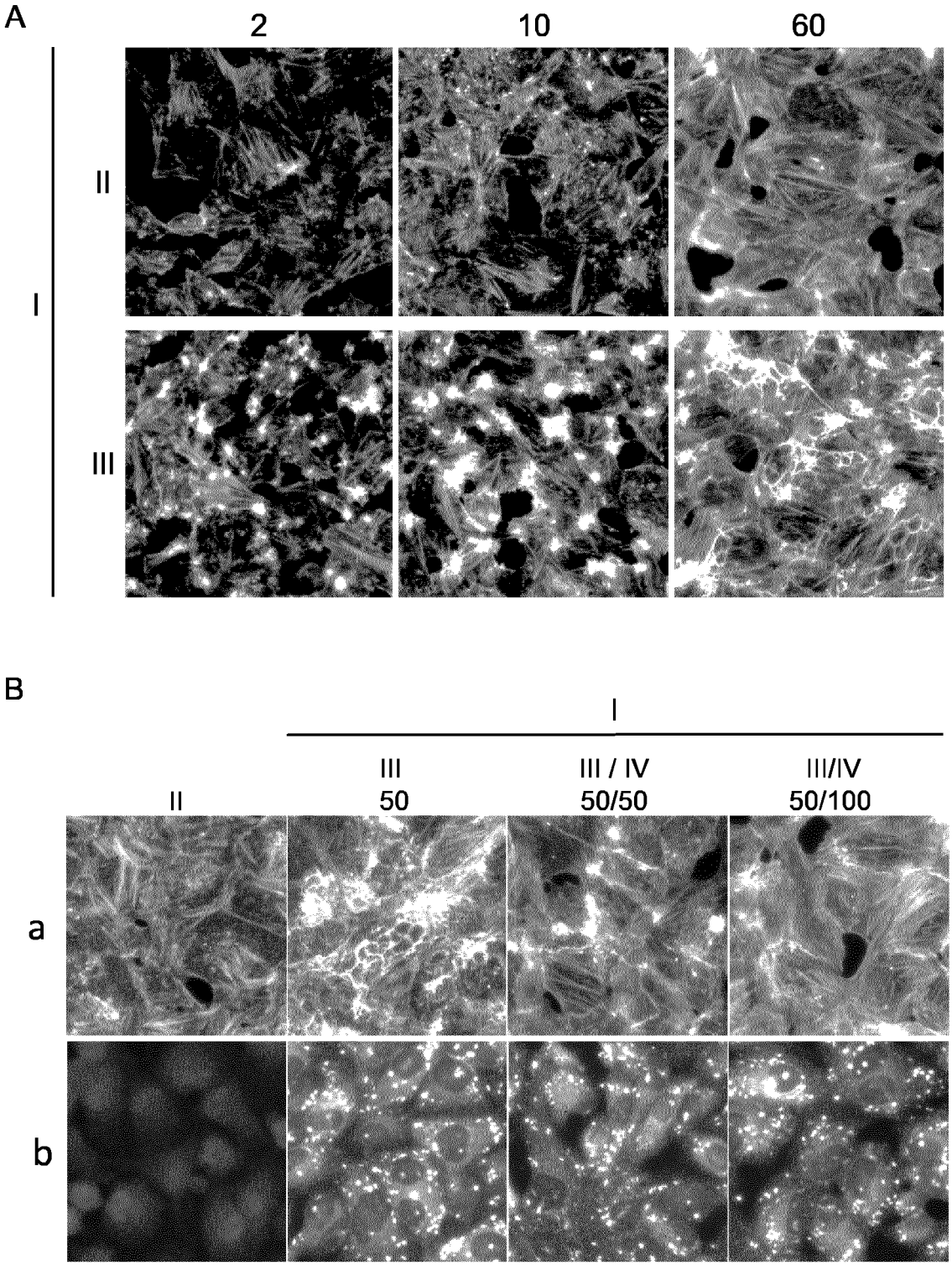


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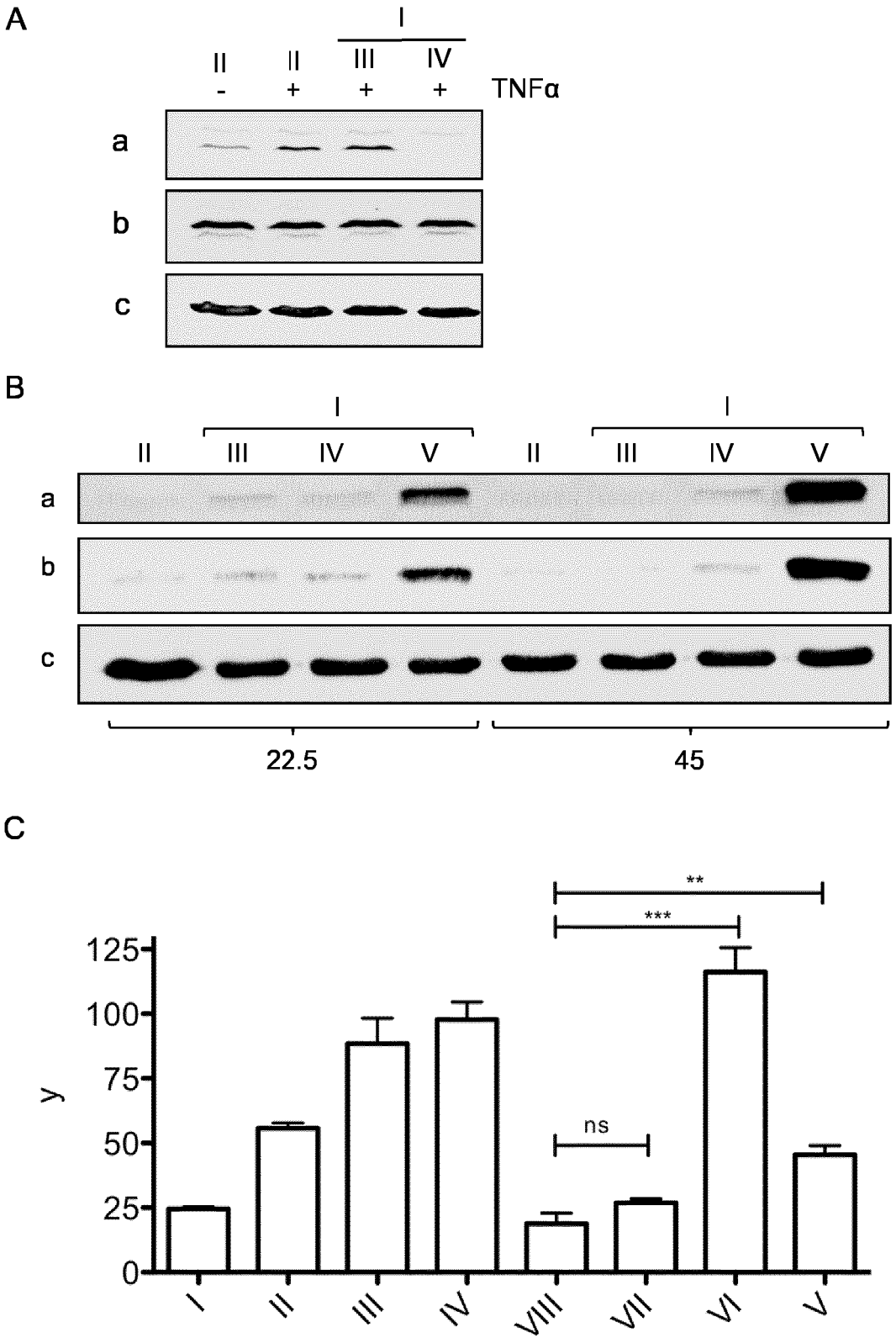

A
I
II
II
III
IV
-
+
+
+
TNFα
a
b
c
B
I
I
II
III
IV
V
II
III
IV
V
a
b
c
22.5
45
C
**
***
ns
125
100
75
50
25
0
y
I
II
III
IV
VIII
VII
VI
V

Figure 7

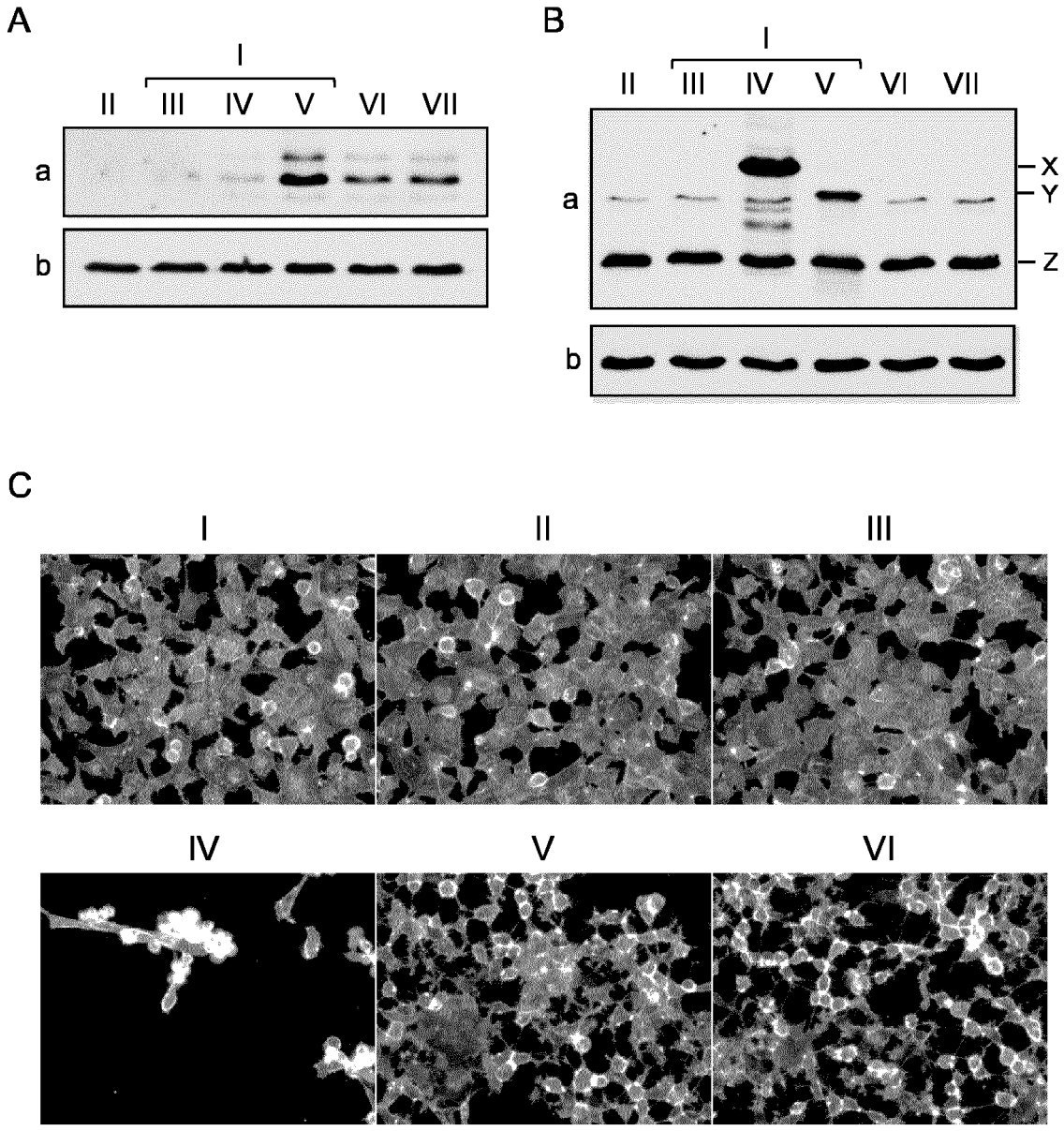
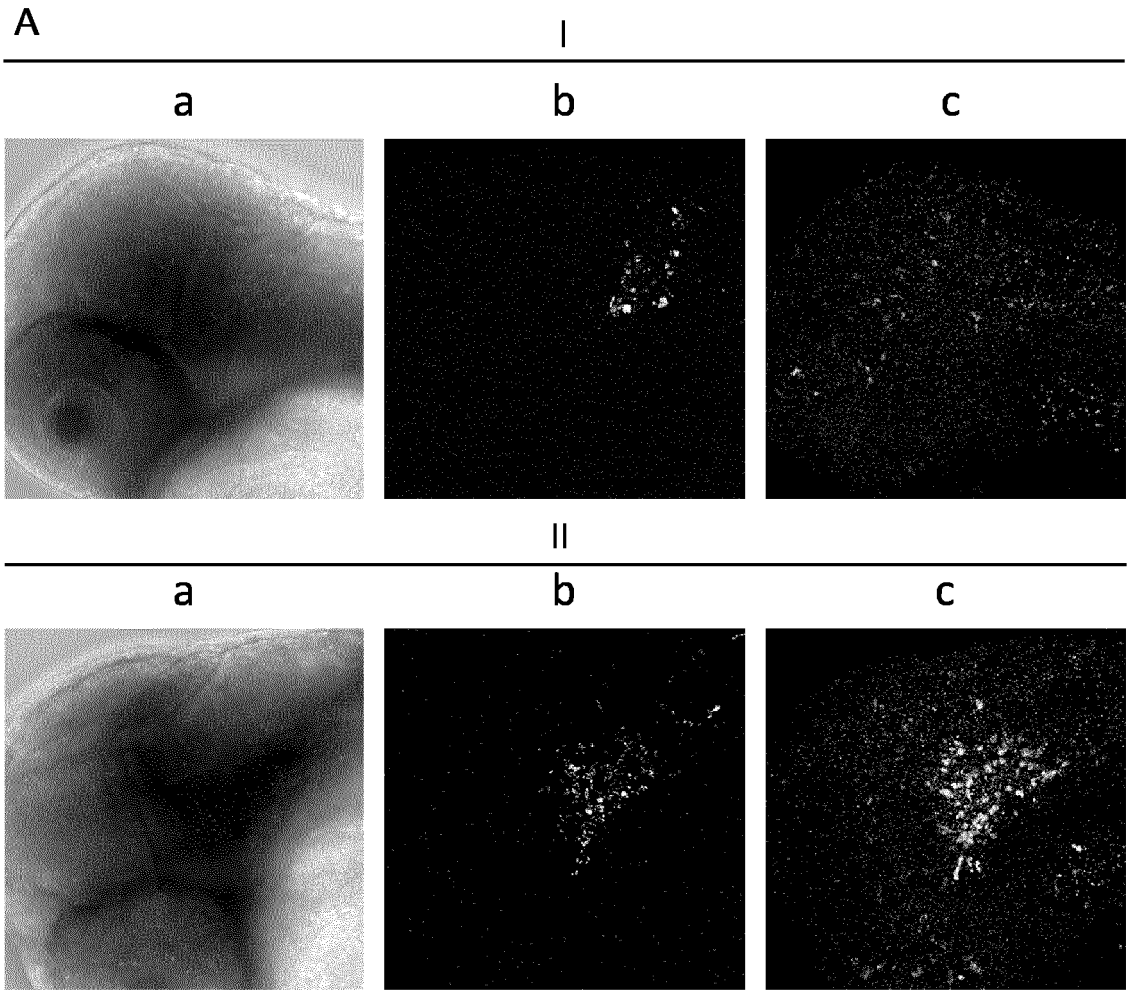


Figure 8



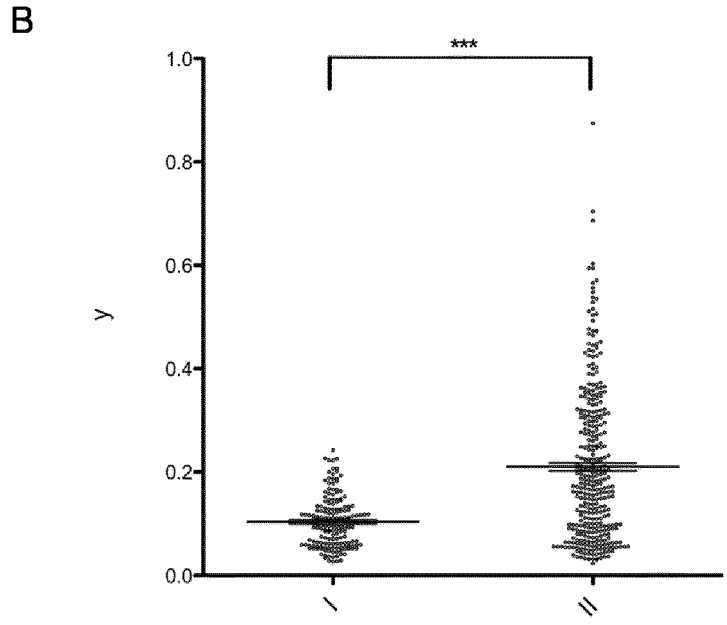


Figure 9

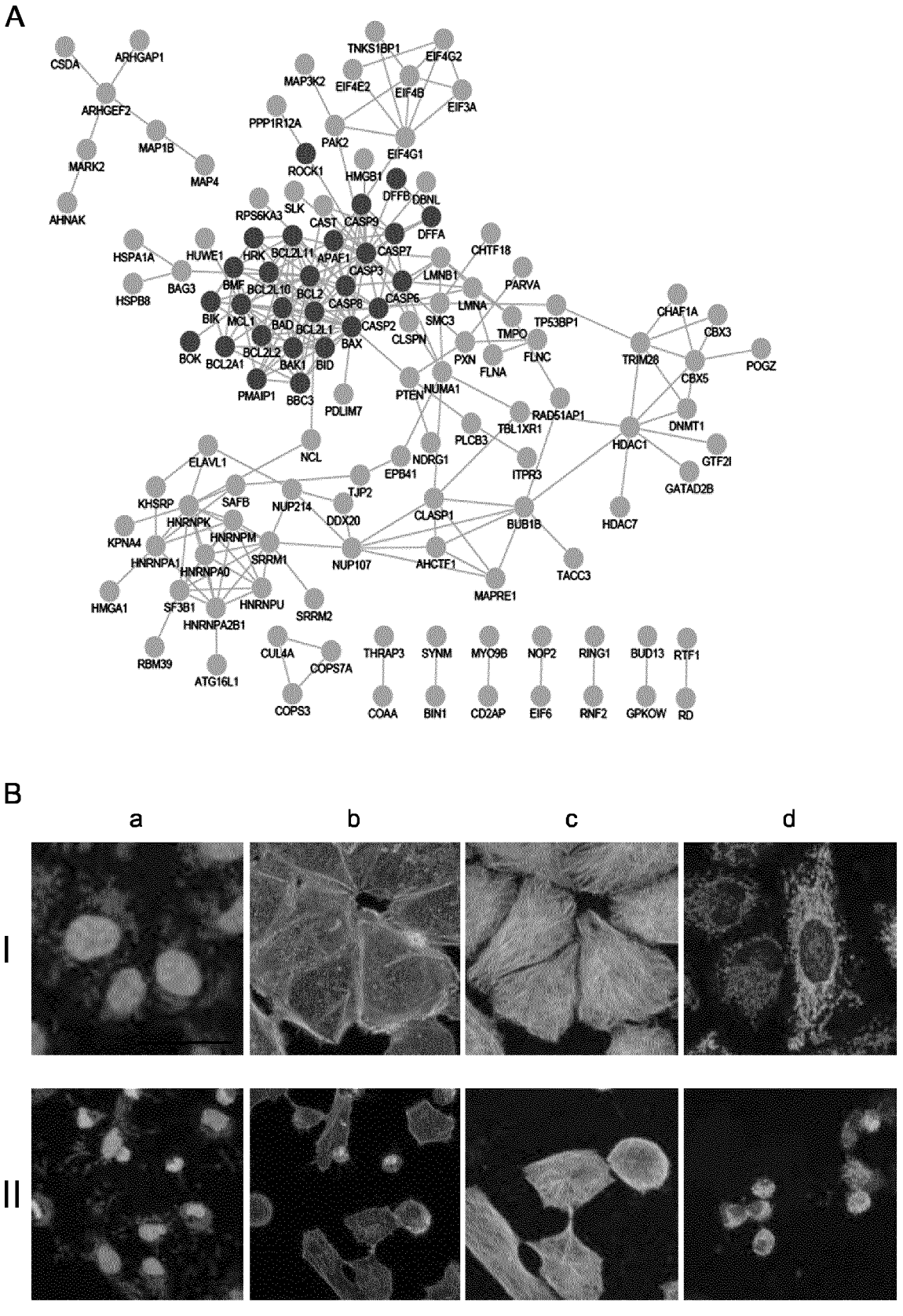
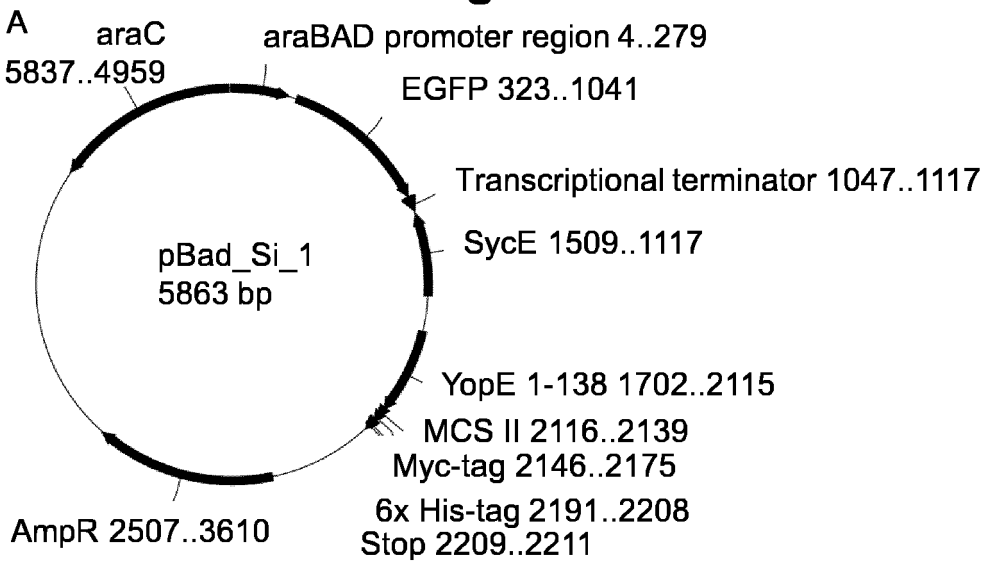
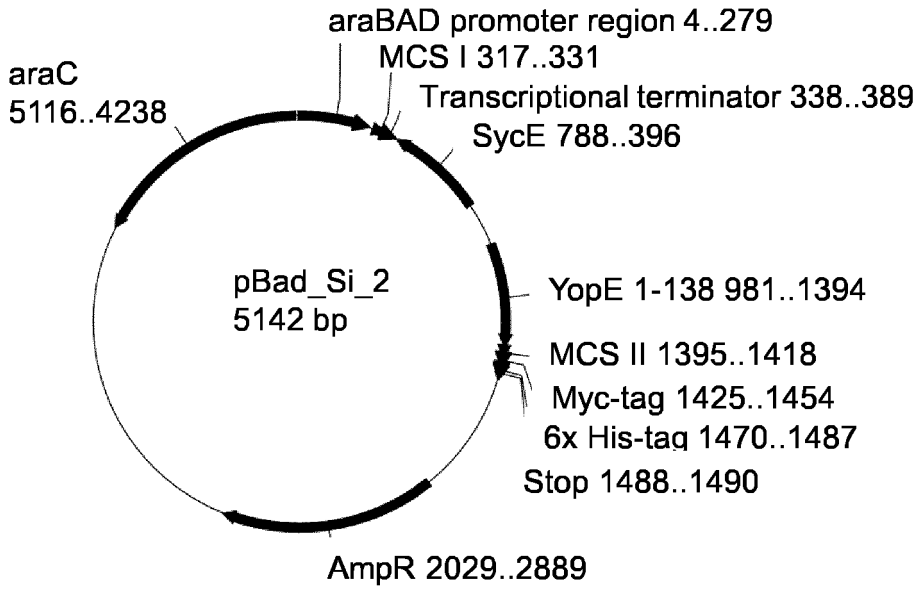

A
CSDA
ARHGAP1
ARHGEF2
MAP1B
MARK2
MAP4
AHNAK
TNKS1BP1
EIF4G2
MAP3K2
EIF4E2
EIF4B
EIF3A
PPP1R12A
PAK2
EIF4G1
ROCK1
HMGB1
DFFB
DBNL
RPS6KA3
SLK
CAST
CASP9
DFFA
HSPA1A
HUWE1
HRK
BCL2L11
APAF1
CASP7
CHTF18
CASP3
LMNB1
PARVA
HSPB8
BAG3
BMF
BCL2L10
BCL2
CASP8
CASP6
LMNA
CHAF1A
BIK
MCL1
BAD
BCL2L1
CASP2
SMC3
TP53BP1
CBX3
CLSPN
TMPO
BOK
BCL2A1
BCL2L2
BAK1
BAX
BID
PXN
FLNA
FLNC
TRIM28
POGZ
CBX5
PMAIP1
BBC3
PDLIM7
PTEN
NUMA1
RAD51AP1
DNMT1
TBL1XR1
PLCB3
HDAC1
NCL
NDRG1
ITPR3
GTF2I
ELAVL1
EPB41
GATAD2B
TJP2
KHSRP
SAFB
NUP214
CLASP1
BUB1B
HDAC7
HNRNPK
DDX20
KPNA4
HNRNPM
HNRNPA1
SRRM1
NUP107
AHCTF1
TACC3
HNRNPA0
MAPRE1
HMGA1
SF3B1
HNRNPU
SRRM2
HNRNPA2B1
RBM39
ATG16L1
CUL4A
COPS7A
COPS3
THRAP3
SYNM
MYO9B
NOP2
RING1
BUD13
RTF1
COAA
BIN1
CD2AP
EIF6
RNF2
GPKOW
RD
B
a
b
c
d
I
II

Figure 10

A





B

YopE1-138 XhoI XbaI BstBI

GTTCGCCACG CTCGAGTCTA GATTCGAA

HindIII *myc* epitope

AAGCTTGGGC CCGAACAAAA ACTCATCTCA

GAAGAGGATCTGAATAGCGC CGTCGACCAT

6x His - tag

* * *

CATCATCATC ATCATTGAGT TTAAACGGTC

TCCAGCTTGG CTGTTTTGG C

Figure 11

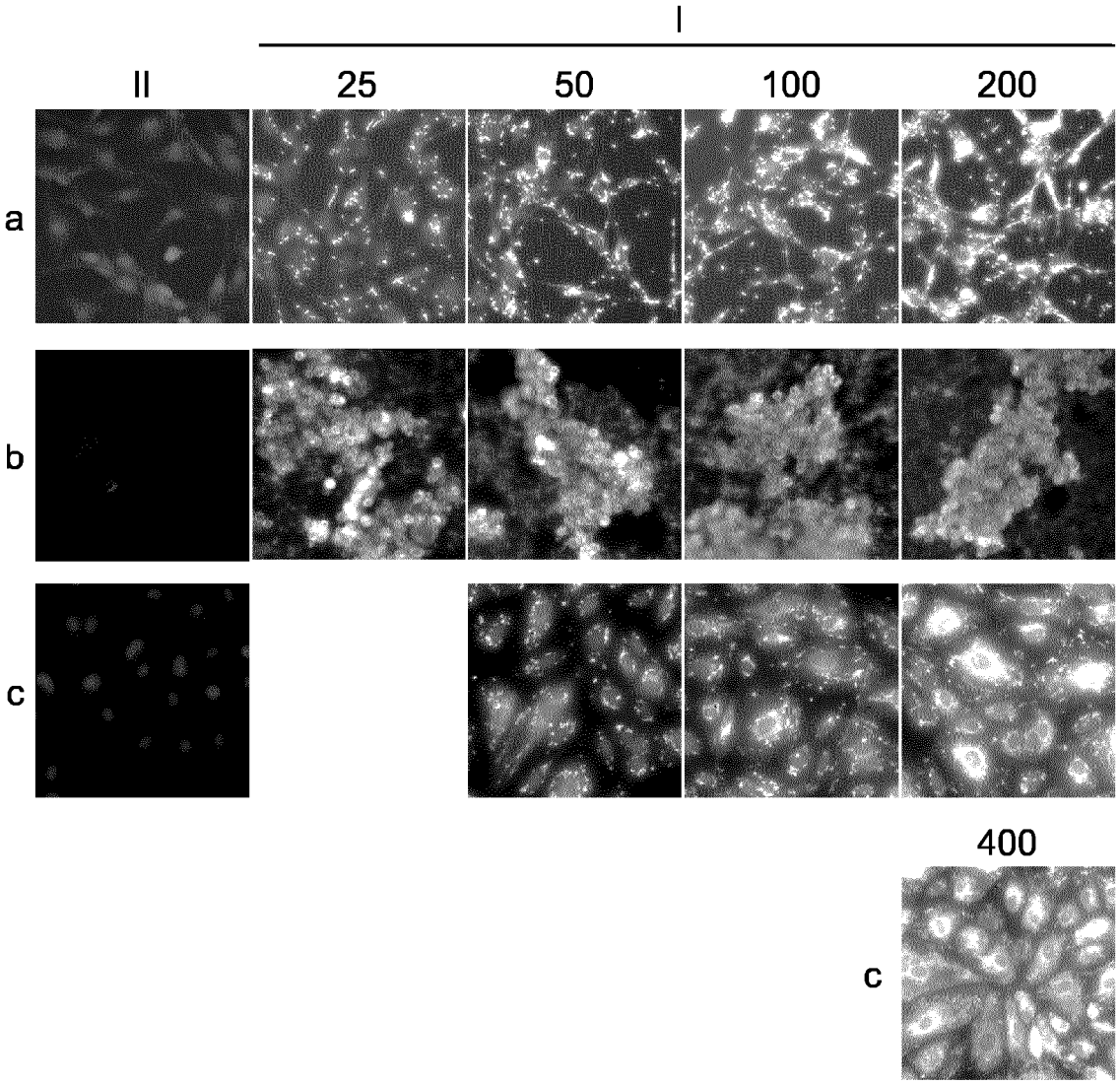


Figure 12

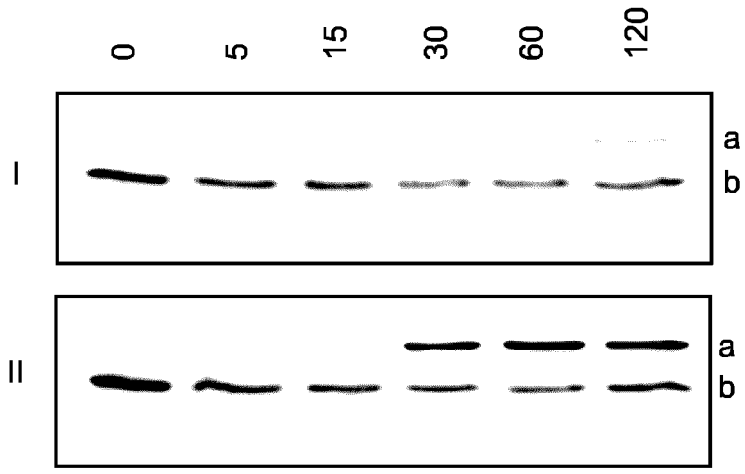
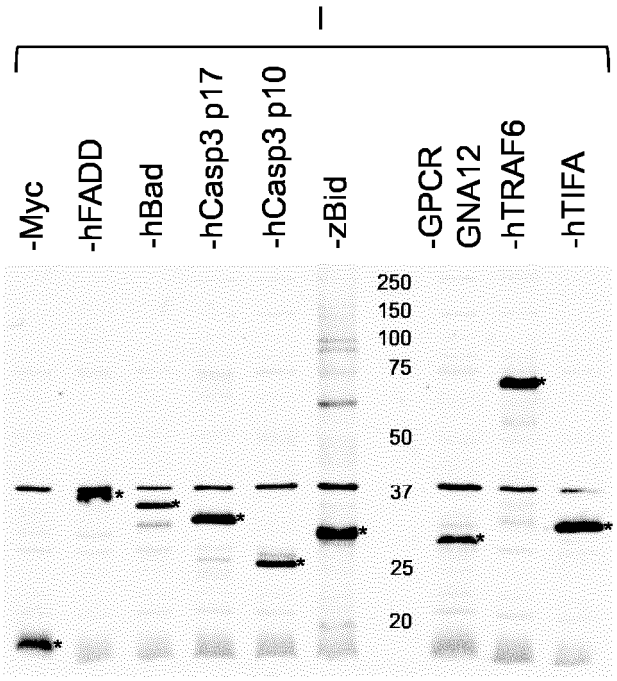


Figure 13

A


I
-Myc
-hFADD
-hBad
-hCasp3 p17
-hCasp3 p10
-zBid
-GPCR GNA12
-hTRAF6
-hTIFA
250
150
100
75
50
37
25
20

B

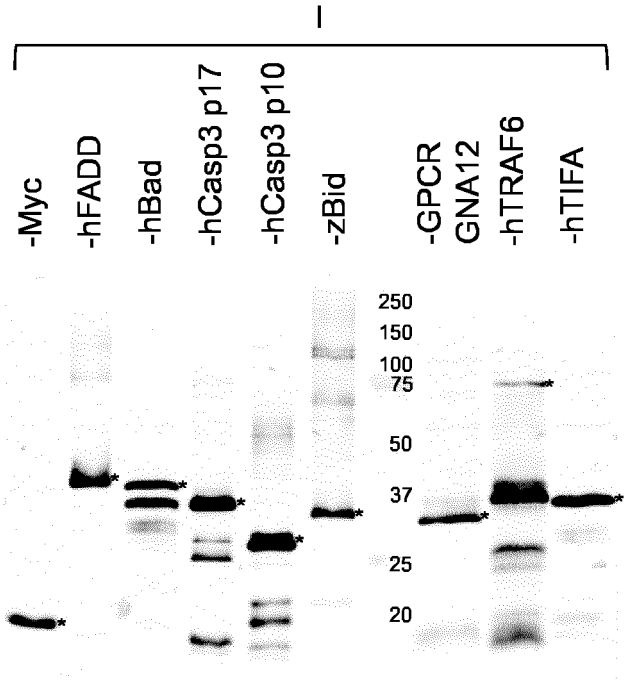
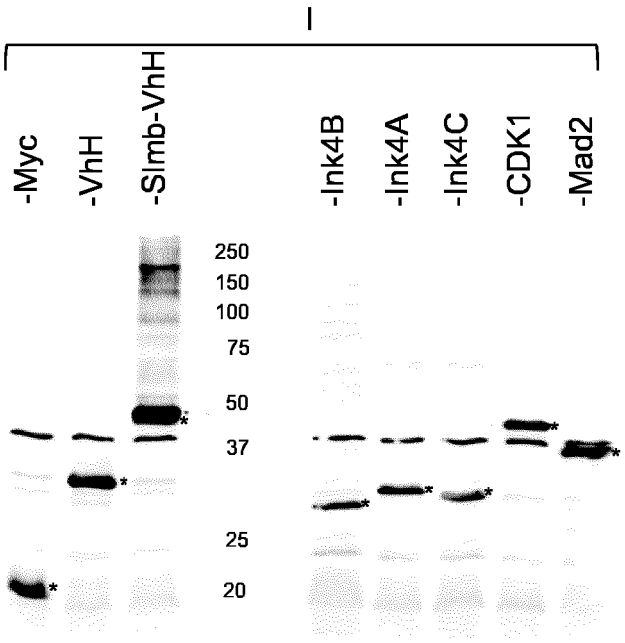

I
-Myc
-hFADD
-hBad
-hCasp3 p17
-hCasp3 p10
-zBid
-GPCR GNA12
-hTRAF6
-hTIFA
250
150
100
75
50
37
25
20

Figure 14

A


I
-Myc
-VhH
-Slmb-VhH
-Ink4B
-Ink4A
-Ink4C
-CDK1
-Mad2
250
150
100
75
50
37
25
20

B

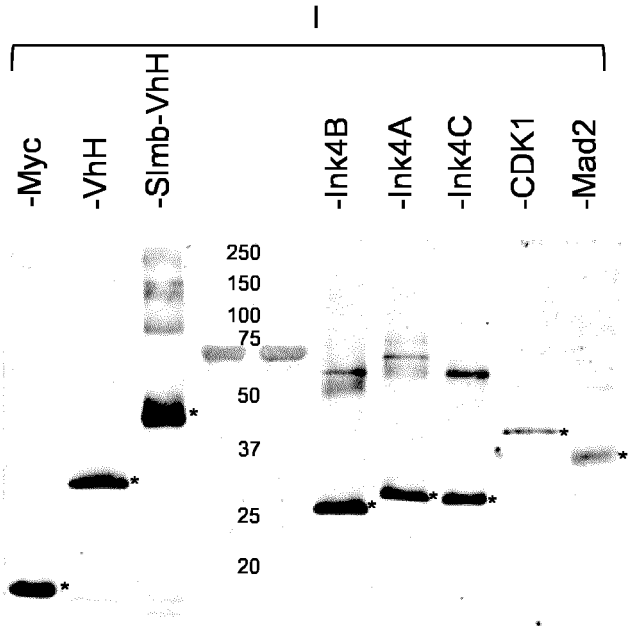

I
-Myc
-VhH
-Slmb-VhH
-Ink4B
-Ink4A
-Ink4C
-CDK1
-Mad2
250
150
100
75
50
37
25
20

Figure 15A

Strain Name	Background strain	Insert/relevant characteristics	Protein to be delivred by T3SS	Backbone plasmid	Resulting plasmid name	Primers. Si_Nr.:	resistances	Reference
ΔHOPEMT	Y. enterocolitica ΔyopH,O,P,E,M,T	MRS40 pIML421 [yopHΔ1–352, yopOΔ65–558, yopP23, yopE21, yopM23, yopT135]					Nal	Iriarte and Cornelis, 1998
ΔHOPEMT asd yopB	Y. enterocolitica ΔyopH,O,P,E,M,T Δ*yopB*	MRS40 pIML421 [yopBΔ89-217, yopHΔ1–352, yopOΔ65–558, yopP23, yopE21, yopM23, yopT135]					Nal Kan	
ΔHOPEMT asd	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd	MRS40 asdΔ292-610 pIML421 [yopHΔ1–352, yopOΔ65–558, yopP23, yopE21, yopM23, yopT135]					Nal	Kudryashev et al., 2013
ΔHOPEMT asd inv	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd ΔinvA	MRS40 asdΔ292-610 invAΔ352-2225::aphA-3 pIML421 [yopHΔ1–352, yopOΔ65–558, yopP23, yopE21, yopM23, yopT135]				445/446, 447/448, 449/450	Nal Kan	
ΔHOPEMT asd inv yadA	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd ΔinvA ΔyadA	MRS40 asdΔ292-610 invAΔ587-836 (vector cointegration) yadAΔ89-354::aphA3 pIML421 [yopHΔ1–352, yopOΔ65–558, yopP23, yopE21, yopM23, yopT135]				352/353, 354/355, 356/357	Nal Kan Tet	

Figure 15B

Strain Name	Background strain	Insert/relevant characteristics	Protein to be delivred by T3SS	Backbone plasmid	Resulting plasmid name	Primers. Si_Nr.:	resistances	Reference
ΔHOPEMT asd pBad_Si1	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd	EGFP (Arabinose inducible), SycE-YopE1-138-MycHis fragment		pBad-MycHisA (Invitrogen)	pBad_Si_1	285/286 (EGFP), 287/288 (sycE-YopE1-138)	Nal Amp	
ΔHOPEMT asd pBad_Si2	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd	SycE-YopE$_{1-138}$-MycHis fragment	YopE1-138-MycHis	pBad-MycHisA (Invitrogen)	pBad_Si_2	287/288 (sycE-YopE1-138)	Nal Amp	
ΔHOPEMT asd pSi_16	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-IpgB1	pBad_Si_2	pSi_16	292/293	Nal Amp	
ΔHOPEMT asd pSi_20	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-SopE	pBad_Si_2	pSi_20	296/297	Nal Amp	
ΔHOPEMT asd pSi_22	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-Rac1 Q61L	pBad_Si_2	pSi_22	299/300	Nal Amp	
ΔHOPEMT asd pSi_24	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-RhoA Q61E	pBad_Si_2	pSi_24	301/302	Nal Amp	

Figure 15C

Strain Name	Background strain	Insert/relevant characteristics	Protein to be delivred by T3SS	Backbone plasmid	Resulting plasmid name	Primers. Si_Nr.:	resistances	Reference
ΔHOPEMT asd pSi_28	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-SopE-MycHis	pBad_Si_2	pSi_28	296/306	Nal Amp	
ΔHOPEMT yopB asd pSi_28	Y. enterocolitica ΔyopH,O,P,E,M,T ΔyopB Δasd		YopE1-138-SopE-MycHis	pBad_Si_2	pSi_28	296/306	Nal Amp	
ΔHOPEMT asd pSi_30	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-SopB	pBad_Si_2	pSi_30	307/308	Nal Amp	
ΔHOPEMT asd pSi_37	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-FADD	pBad_Si_2	pSi_37	367/386	Nal Amp	
ΔHOPEMT asd pSi_38	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-OspF	pBad_Si_2	pSi_38	317/318	Nal Amp	
ΔHOPEMT asd pSi_43	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-BepG 715-end	pBad_Si_2	pSi_43	324/351	Nal Amp	

Figure 15D

Strain Name	Background strain	Insert/relevant characteristics	Protein to be delivred by T3SS	Backbone plasmid	Resulting plasmid name	Primers. Si_Nr.:	resistances	Reference
ΔHOPEMT asd pSi_51	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-Rac1 Q61L-MycHis	pBad_Si_2	pSi_51	299/339	Nal Amp	
ΔHOPEMT yopB asd pSi_51	Y. enterocolitica ΔyopH,O,P,E,M,T ΔyopB Δasd		YopE1-138-Rac1 Q61L-MycHis	pBad_Si_2	pSi_51	299/339	Nal Amp	
ΔHOPEMT asd pSi_53	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-Slmb1-VhH4	pBad_Si_2	pSi_53	341/342	Nal Amp	
ΔHOPEMT asd pSi_57	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-Bad	pBad_Si_2	pSi_57	346/347	Nal Amp	
ΔHOPEMT asd pSi_64	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-SptP	pBad_Si_2	pSi_64	364/365	Nal Amp	
ΔHOPEMT asd pSi_70	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-NLS-Slmb1-VhH4	pBad_Si_2	pSi_70	369/342	Nal Amp	

Figure 15E

Strain Name	Background strain	Insert/relevant characteristics	Protein to be delivred by T3SS	Backbone plasmid	Resulting plasmid name	Primers. Si_Nr.:	resistances	Reference
ΔHOPEMT asd pSi_85	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-Bid	pBad_Si_2	pSi_85	387/391	Nal Amp	
ΔHOPEMT asd pSi_87	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-t-Bid	pBad_Si_2	pSi_87	389/391	Nal Amp	
ΔHOPEMT asd pSi_97	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-Caspase3 p17	pBad_Si_2	pSi_97	403/406	Nal Amp	
ΔHOPEMT asd pSi_103	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-GPCR GNA12	pBad_Si_2	pSi_103	410/413	Nal Amp	
ΔHOPEMT asd pSi_106	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-Caspase3 p10/12	pBad_Si_2	pSi_106	417/420	Nal Amp	
ΔHOPEMT asd pSi_111	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-IpgD	pBad_Si_2	pSi_111	423/424	Nal Amp	
ΔHOPEMT asd pSi_112	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-Slmb1-VhH4-NLS	pBad_Si_2	pSi_112	341/425	Nal Amp	

Figure 15F

Strain Name	Background strain	Insert/relevant characteristics	Protein to be delivred by T3SS	Backbone plasmid	Resulting plasmid name	Primers. Si_Nr.:	resistances	Reference
ΔHOPEMT asd pSi_116	Y. enterocolitica ΔyopH,O,P,E,M, T Δasd		YopE1-138-z-Bid	pBad_Si_2	pSi_116	428/430	Nal Amp	
ΔHOPEMT asd pSi_117	Y. enterocolitica ΔyopH,O,P,E,M, T Δasd		YopE1-138-z-t-Bid	pBad_Si_2	pSi_117	429/430	Nal Amp	
ΔHOPEMT asd pSi_118	Y. enterocolitica ΔyopH,O,P,E,M, T Δasd		YopE1-138-BepA E305-end	pBad_Si_2	pSi_118	433/435	Nal Amp	
ΔHOPEMT asd pSi_119	Y. enterocolitica ΔyopH,O,P,E,M, T Δasd		YopE1-138-BepA	pBad_Si_2	pSi_119	434/435	Nal Amp	
ΔHOPEMT asd pSi_120	Y. enterocolitica ΔyopH,O,P,E,M, T Δasd		YopE1-138-ET1	pBad_Si_2	pSi_120	436/437	Nal Amp	
ΔHOPEMT asd pSi_121	Y. enterocolitica ΔyopH,O,P,E,M, T Δasd		YopE1-138-z-BIM	pbad_Si_1	pSi_121	438/439	Nal Amp	
ΔHOPEMT asd pSi_124	Y. enterocolitica ΔyopH,O,P,E,M, T Δasd		YopE1-138-VhH4 nanobody recognizing EGFP	pBad_Si_2	pSi_124	451/373	Nal Amp	

Figure 15G

Strain Name	Background strain	Insert/relevant characteristics	Protein to be delivred by T3SS	Backbone plasmid	Resulting plasmid name	Primers. Si_Nr.:	resistances	Reference
ΔHOPEMT asd pSi_132	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-TEV protease S219V	pBad_Si_2	pSi_132	463/464	Nal Amp	
ΔHOPEMT asd pSi_140	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-EGFP	pBad_Si_2	pSi_140	477/476	Nal Amp	
ΔHOPEMT asd pSi_143	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-Cdk1	pBad_Si_2	pSi_143	478/479	Nal Amp	
ΔHOPEMT asd pSi_145	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-Mad2	pBad_Si_2	pSi_145	482/483	Nal Amp	
ΔHOPEMT asd pSi_147	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-Ink4A	pBad_Si_2	pSi_147	486/487	Nal Amp	
ΔHOPEMT asd pSi_150	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-Ink4B	pBad_Si_2	pSi_150	492/493	Nal Amp	
ΔHOPEMT asd pSi_151	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-Ink4C	pBad_Si_2	pSi_151	494/495	Nal Amp	

Figure 15H

Strain Name	Background strain	Insert/relevant characteristics	Protein to be delivred by T3SS	Backbone plasmid	Resulting plasmid name	Primers. Si_Nr.:	resistances	Reference
ΔHOPEMT asd pSi_153	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-TIFA	pBad_Si_2	pSi_153	558/559	Nal Amp	
ΔHOPEMT asd pSi_156	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-2x TEVsite - ET1	pBad_Si_2	pSi_156	504/505	Nal Amp	
ΔHOPEMT asd pSi_159	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-2xTEVsite - EGFP - NLS	pBad_Si_2	pSi_159	511/513	Nal Amp	
ΔHOPEMT asd pSi_160	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-2xTEVsite - NLS - EGFP	pBad_Si_2	pSi_160	512/476	Nal Amp	
ΔHOPEMT asd pSi_161	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-2x TEVsite - INK4C	pBad_Si_2	pSi_161	508/509	Nal Amp	
ΔHOPEMT asd pSi_164	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-2x TEVsite - Flag - INK4C	pBad_Si_2	pSi_164	515/509	Nal Amp	
ΔHOPEMT asd pSi_166	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-murine Traf6	pBad_Si_2	pSi_166	561/562	Nal Amp	

Figure 15l

Strain Name	Background strain	Insert/relevant characteristics	Protein to be delivred by T3SS	Backbone plasmid	Resulting plasmid name	Primers. Si_Nr.:	resistances	Reference
ΔHOPEMT asd pSi_318	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-Y. enterocolitica codon optimized murine tBid BH3 part	pBad_Si_2	pSi_318	677/678	Nal Amp	
ΔHOPEMT asd pSi_322	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-Y. enterocolitica codon optimized murine Bax BH3 part	pBad_Si_2	pSi_322	682/683	Nal Amp	
S. enterica SL1344 ΔaroA	S. enterica subsp. enterica serovar Typhimurium SL1344 ΔaroA							Hoiseth and Stocker, 1981
S. enterica ΔaroA pSi_266	S. enterica SL1344 ΔaroA		SteA1-20	pBad-MycHisA (Invitrogen)	pSi_266	580/612	Amp	
S. enterica ΔaroA pSi_267	S. enterica SL1344 ΔaroA		SteA	pBad-MycHisA (Invitrogen)	pSi_267	580/613	Amp	

Figure 15J

Strain Name	Background strain	Insert/relevant characteristics	Protein to be delivred by T3SS	Backbone plasmid	Resulting plasmid name	Primers. Si_Nr.:	resistances	Reference
S. enterica ΔaroA pSi_268	S. enterica SL1344 ΔaroA		SopE1-80	pBad-MycHisA (Invitrogen)	pSi_268	614/615	Amp	
S. enterica ΔaroA pSi_269	S. enterica SL1344 ΔaroA		SopE1-104	pBad-MycHisA (Invitrogen)	pSi_269	614/616	Amp	
S. enterica ΔaroA pSi_270	S. enterica SL1344 ΔaroA		SteA1-20-S. enterica codon optimized murine tBid	pSi_266	pSi_270	synthetic construct	Amp	
S. enterica ΔaroA pSi_271	S. enterica SL1344 ΔaroA		SteA-S. enterica codon optimized murine tBid	pSi_267	pSi_271	synthetic construct	Amp	
S. enterica ΔaroA pSi_272	S. enterica SL1344 ΔaroA		SopE1-80-S. enterica codon optimized murine tBid	pSi_268	pSi_272	synthetic construct	Amp	
S. enterica ΔaroA pSi_273	S. enterica SL1344 ΔaroA		SopE1-104-S. enterica codon optimized murine tBid	pSi_269	pSi_273	synthetic construct	Amp	

Figure 15K

Strain Name	Background strain	Insert/relevant characteristics	Protein to be delivred by T3SS	Backbone plasmid	Resulting plasmid name	Primers. Si_Nr.:	resistances	Reference
ΔHOPEMT asd pSi_362	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-Y. enterocolitica codon optimized Ink4A 84-103	pBad_Si_2	pSi_362	745/746	Nal Amp	
ΔHOPEMT asd pSi_363	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-Y. enterocolitica codon optimized Cdk2/cyclin inhibitory peptide I	pBad_Si_2	pSi_363	747/748	Nal Amp	
ΔHOPEMT asd pSi_364	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-Y. enterocolitica codon optimized p21 peptide 10 (DtoA)	pBad_Si_2	pSi_364	749/750	Nal Amp	
ΔHOPEMT asd pSi_366	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-Y. enterocolitica codon optimized p21 core of peptide 10 and 11	pBad_Si_2	pSi_366	753/754	Nal Amp	
ΔHOPEMT asd pSi_367	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-Y. enterocolitica codon optimized p21 peptide 17-33	pBad_Si_2	pSi_367	755/756	Nal Amp	

Figure 15L

Strain Name	Background strain	Insert/relevant characteristics	Protein to be delivred by T3SS	Backbone plasmid	Resulting plasmid name	Primers. Si_Nr.:	resistances	Reference
ΔHOPEMT asd pSi_368	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-Y. enterocolitica codon optimized pep5 of G1/S cyclin D2	pBad_Si_2	pSi_368	757/758	Nal Amp	
S. enterica ΔaroA pSi_333	S. enterica SL1344 ΔaroA		SteA-Ink4a-MycHis	pSi_267	pSi_333	703/704	Amp	
S. enterica ΔaroA pSi_334	S. enterica SL1344 ΔaroA		SopE1-104-Ink4a-MycHis	pSi_269	pSi_334	703/704	Amp	
S. enterica ΔaroA pSi_335	S. enterica SL1344 ΔaroA		SteA-Ink4c-MycHis	pSi_267	pSi_335	705/706; 707/708; 705/708	Amp	
S. enterica ΔaroA pSi_336	S. enterica SL1344 ΔaroA		SopE1-104-Ink4c-MycHis	pSi_269	pSi_336	705/706; 707/708; 705/708	Amp	
S. enterica ΔaroA pSi_337	S. enterica SL1344 ΔaroA		SteA-Mad2-MycHis	pSi_267	pSi_337	709/710	Amp	

Figure 15M

Strain Name	Background strain	Insert/relevant characteristics	Protein to be delivred by T3SS	Backbone plasmid	Resulting plasmid name	Primers. Si_Nr.:	resistances	Reference
S. enterica ΔaroA pSi_338	S. enterica SL1344 ΔaroA		SopE1-104-Mad2-MycHis	pSi_269	pSi_338	709/710	Amp	
S. enterica ΔaroA pSi_339	S. enterica SL1344 ΔaroA		SteA-Cdk1-MycHis	pSi_267	pSi_339	711/712	Amp	
S. enterica ΔaroA pSi_340	S. enterica SL1344 ΔaroA		SopE1-104-Cdk1-MycHis	pSi_269	pSi_340	711/712	Amp	
ΔHOPEMT asd pSi_315	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-Y. enterocolitica codon optimized murine tBid	pBad_Si_2	pSi_315	synthetic construct	Nal Amp	
ΔHOPEMT asd pSi_236	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-Ubiquitin	pBad_Si_2	pSi_236	585/586	Nal Amp	
ΔHOPEMT asd pSi_237_II	Y. enterocolitica ΔyopH,O,P,E,M,T Δasd		YopE1-138-Ubiquitin-Flag-INK4C-MycHis	pSi_236	pSI_237_II	588/509	Nal Amp	

Figure 16

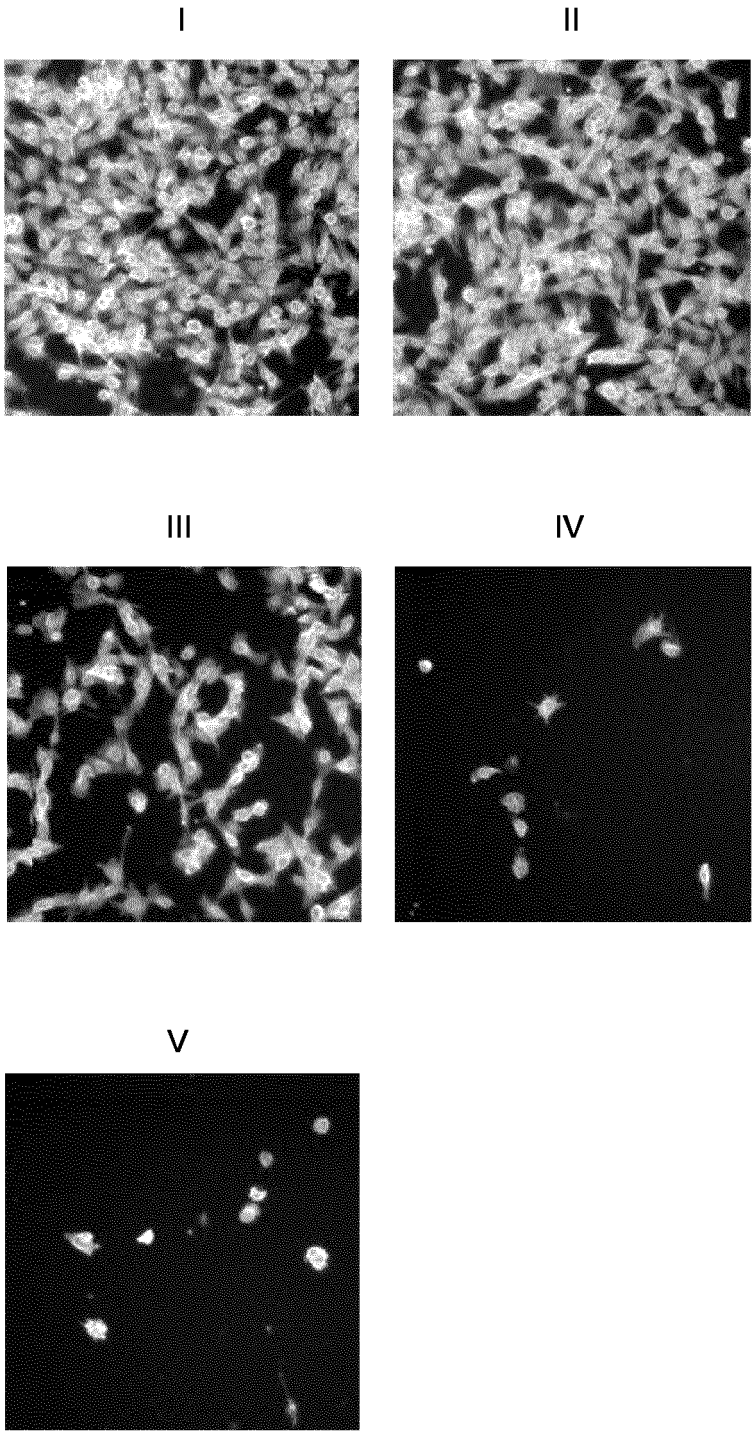


Figure 17

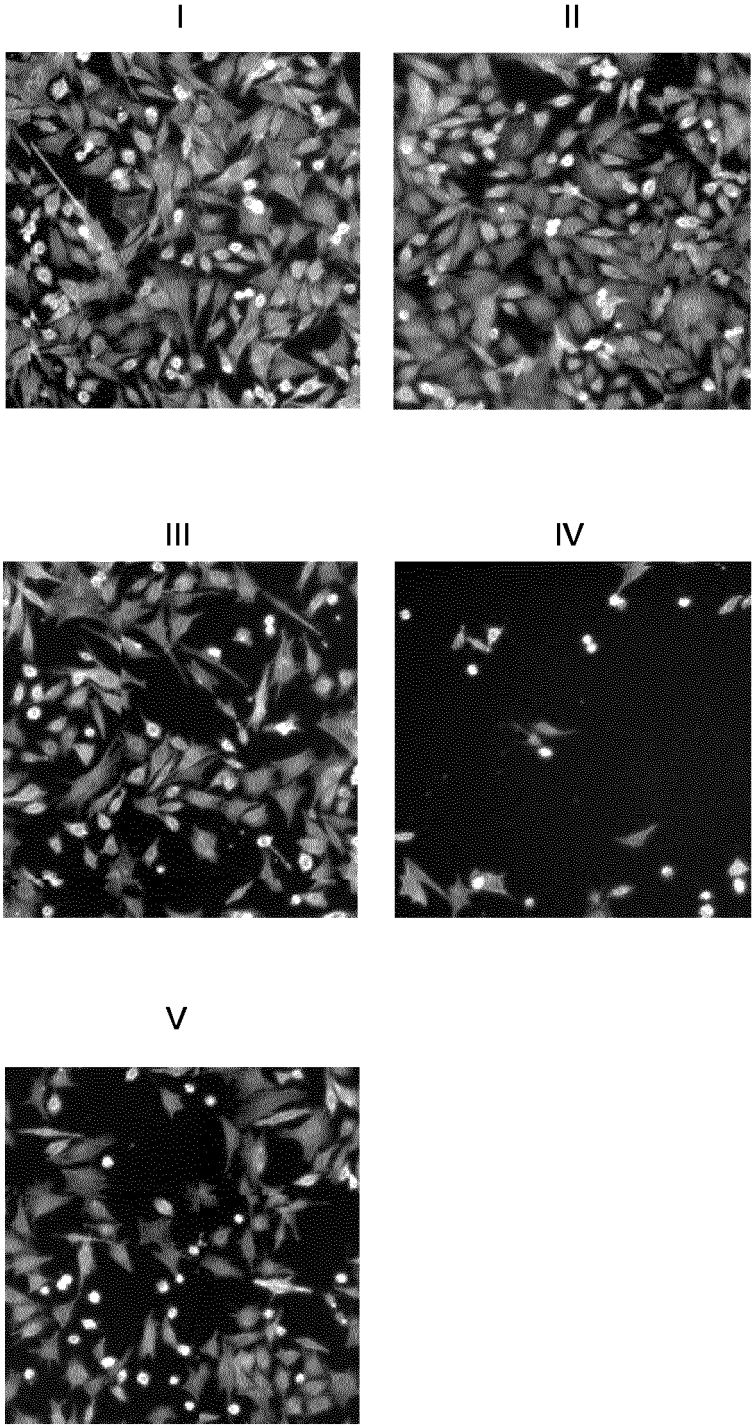


Figure 18

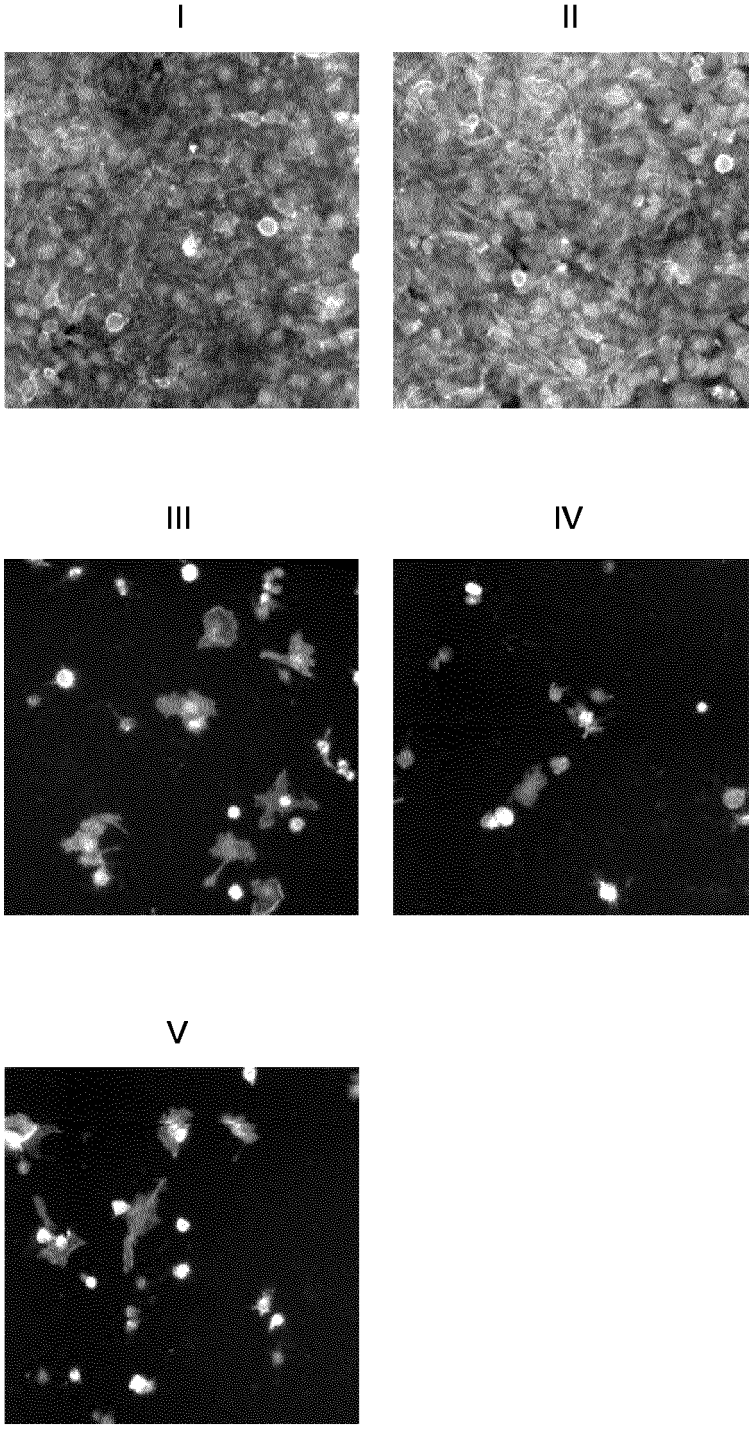


Figure 19

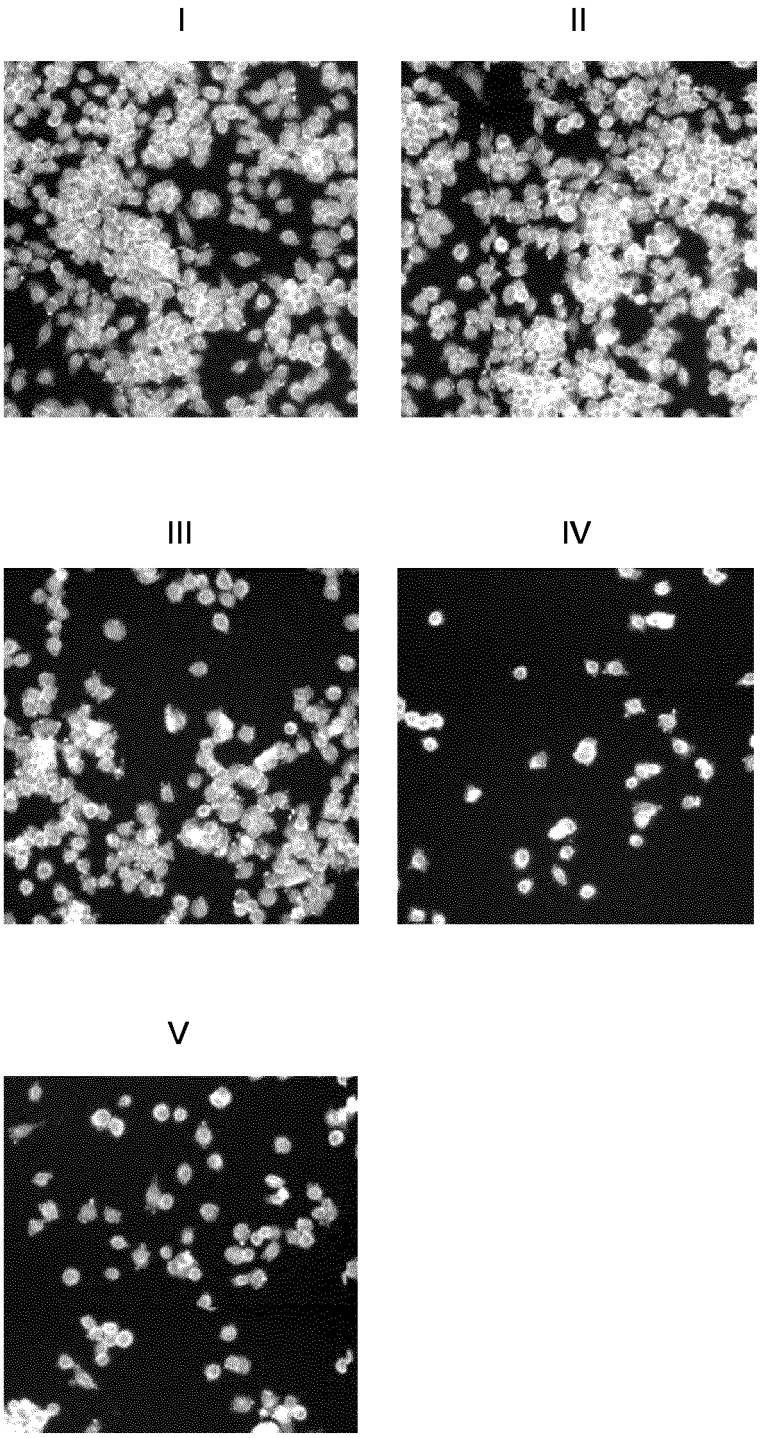


Figure 20

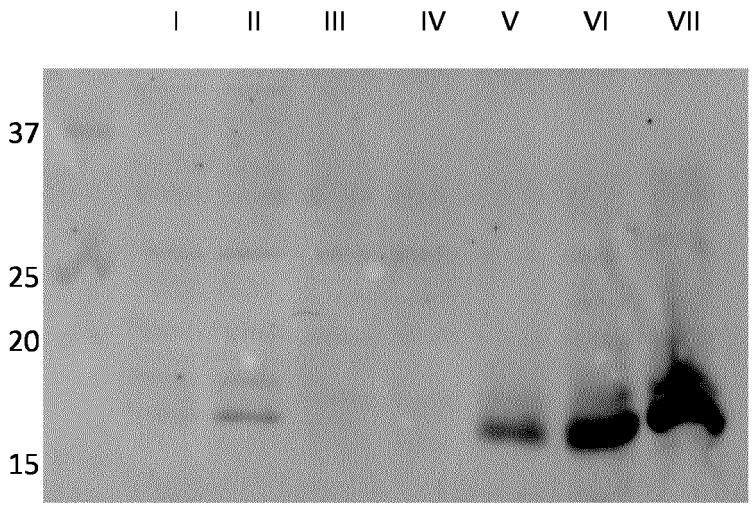


Figure 21

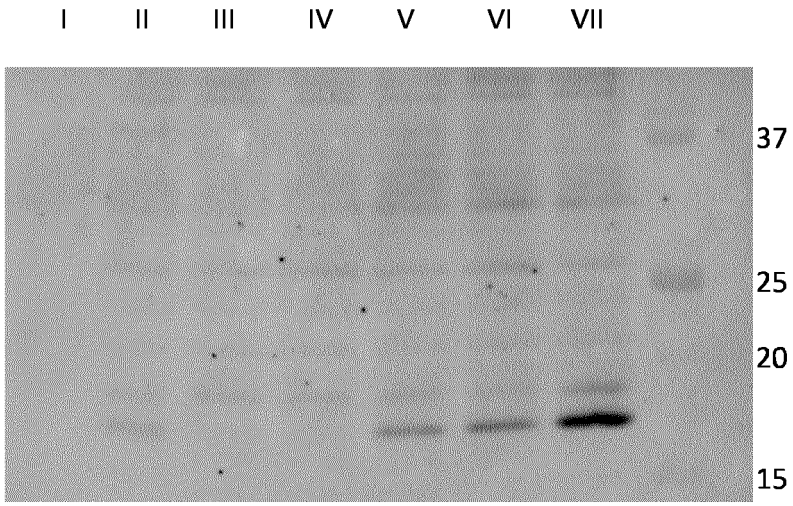


Figure 22

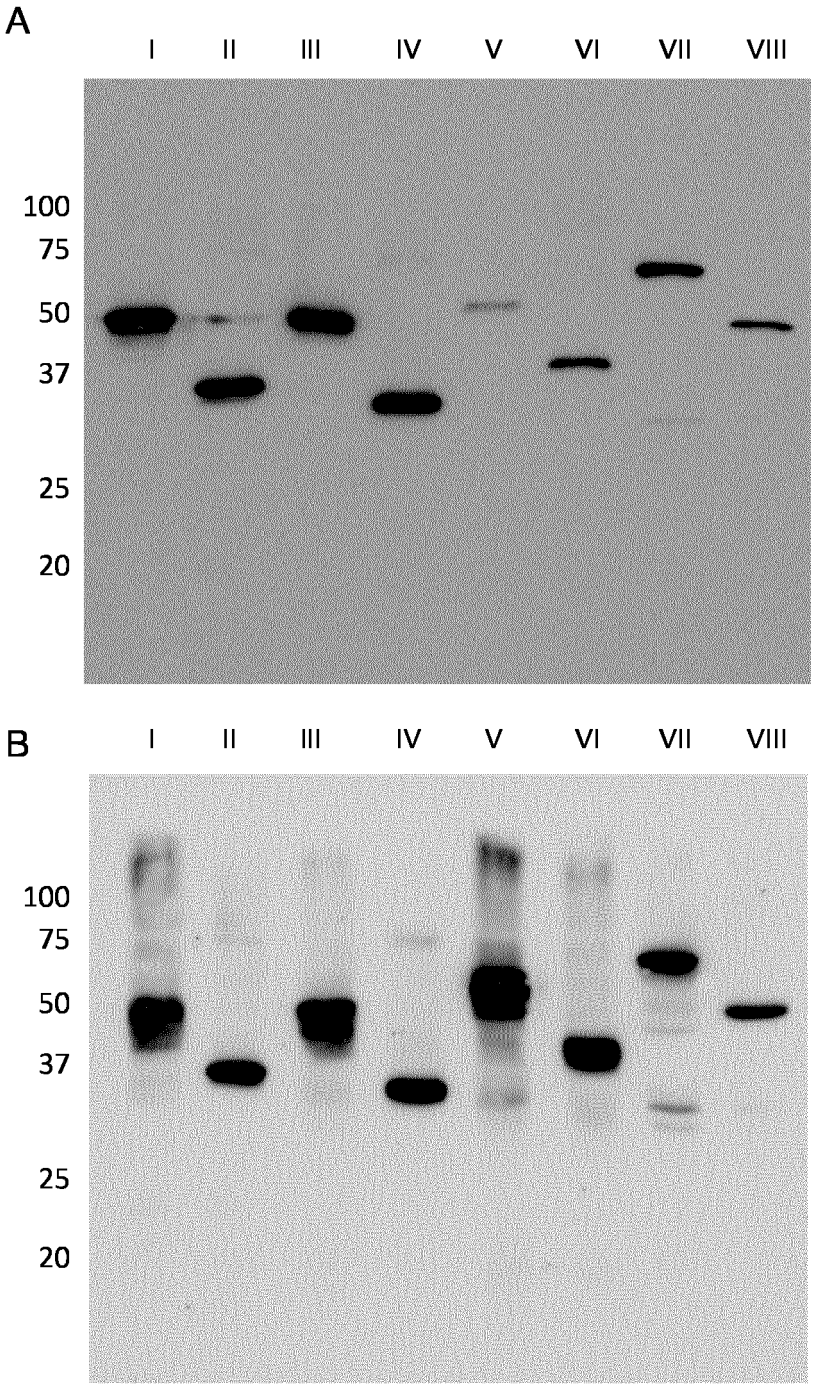

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Figure 23

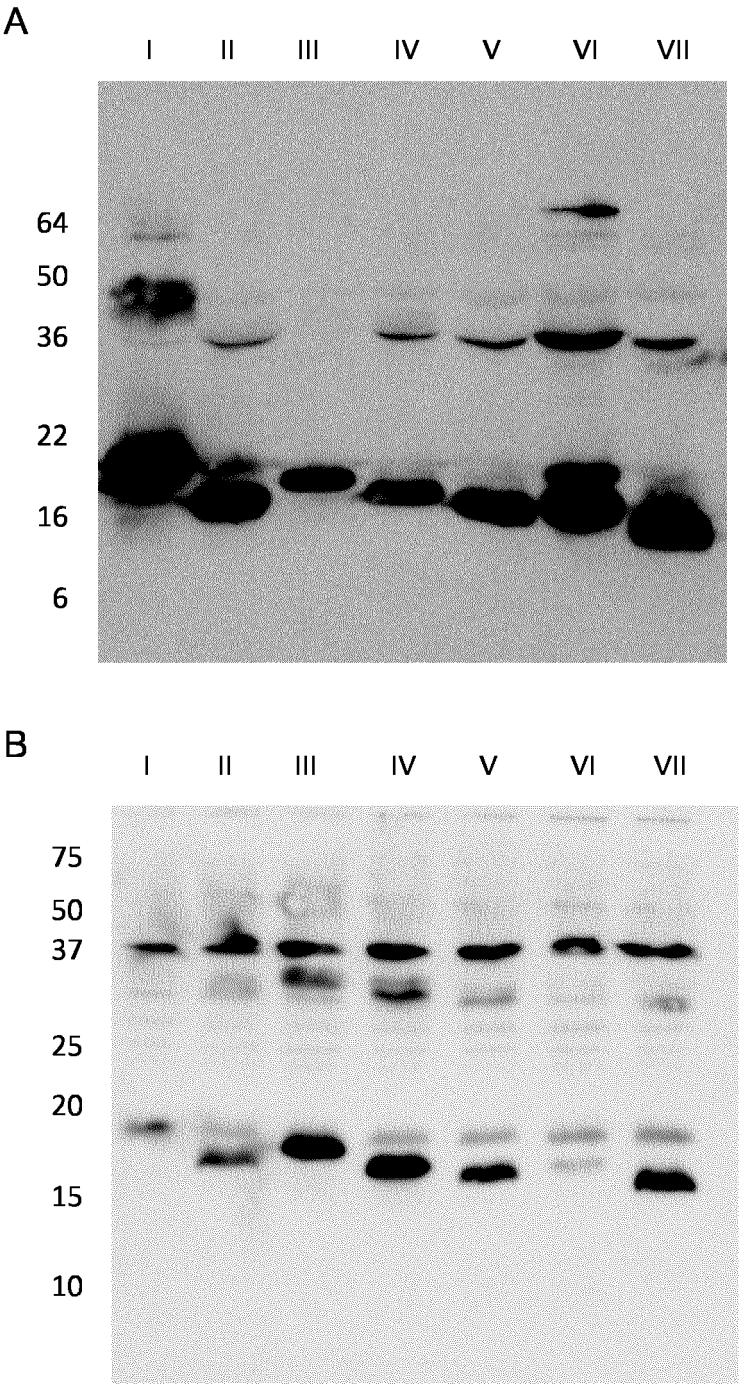

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Figure 24

