A
wildtype
BioID
TurboID
isp3
HA
BioID
isp3
HA
TurboID
B
wildtype
BioID
TurboID
kDa
50
40
35
25
HA
70
BiP
E
4°C
22°C
30°C
37°C
BioID
TurboID
SA-488 / Hoechst
C
wildtype
BioID
TurboID
0 18 0 .25 1 3 18 0 .25 1 3 18 (h)
kDa
170
130
110
70
55
40
35
25
streptavidin-HRP
35
HA
70
BiP
D
wildtype
BioID
TurboID
0 18 0 .25 1 3 18 0 .25 1 3 18 (h)
rep-1
rep-2
rep-3
streptavidin-HRP
Relative dot intensity
c c c c c b ab c ab ab a a
1 2 3 4 5 6 7 8 9 10 11 12
F
SA-488 signal
15
10
5
0
***
****
4 22 30 37 (°C)
BioID
TurboID
G
4°C
22°C
30°C
37°C
biotin
- + - + - + - +
wildtype
(18 h)
BioID
(18 h)
TurboID
(3 h)
SA-HRP
MSP1
H
BioID
22°C,18 h
TurboID
22°C,3 h
HA(BioID)
SA-488
Merge
HA(TurboID)
SA-488
Merge
biotin(-)
biotin(+)