

GADPH

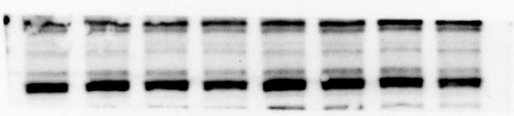
SH-SY5Y Cell

Control | 0.64μM BI-D1870 | 1.28μM BI-D1870 | 2.56μM BI-D1870 ; Control | 0.64μM BI-D1870 | 1.28μM BI-D1870 | 2.56μM BI-D1870

KDa

40 KDa →

36



100 : 100 : 100 : 100 ; 100 : 100 : 100 : 100

Figure 5-G

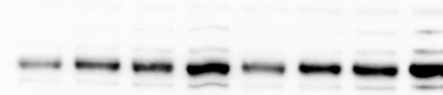
Bax
SH-SY5Y Cell

Control | 0.64μM BI-D1870 | 1.28μM BI-D1870 | 2.56μM BI-D1870 ; Control | 0.64μM BI-D1870 | 1.28μM BI-D1870 | 2.56μM BI-D1870

KDa

21

20 KDa →



100 : 153 : 233 : 435 ; 100 : 178 : 217 : 491

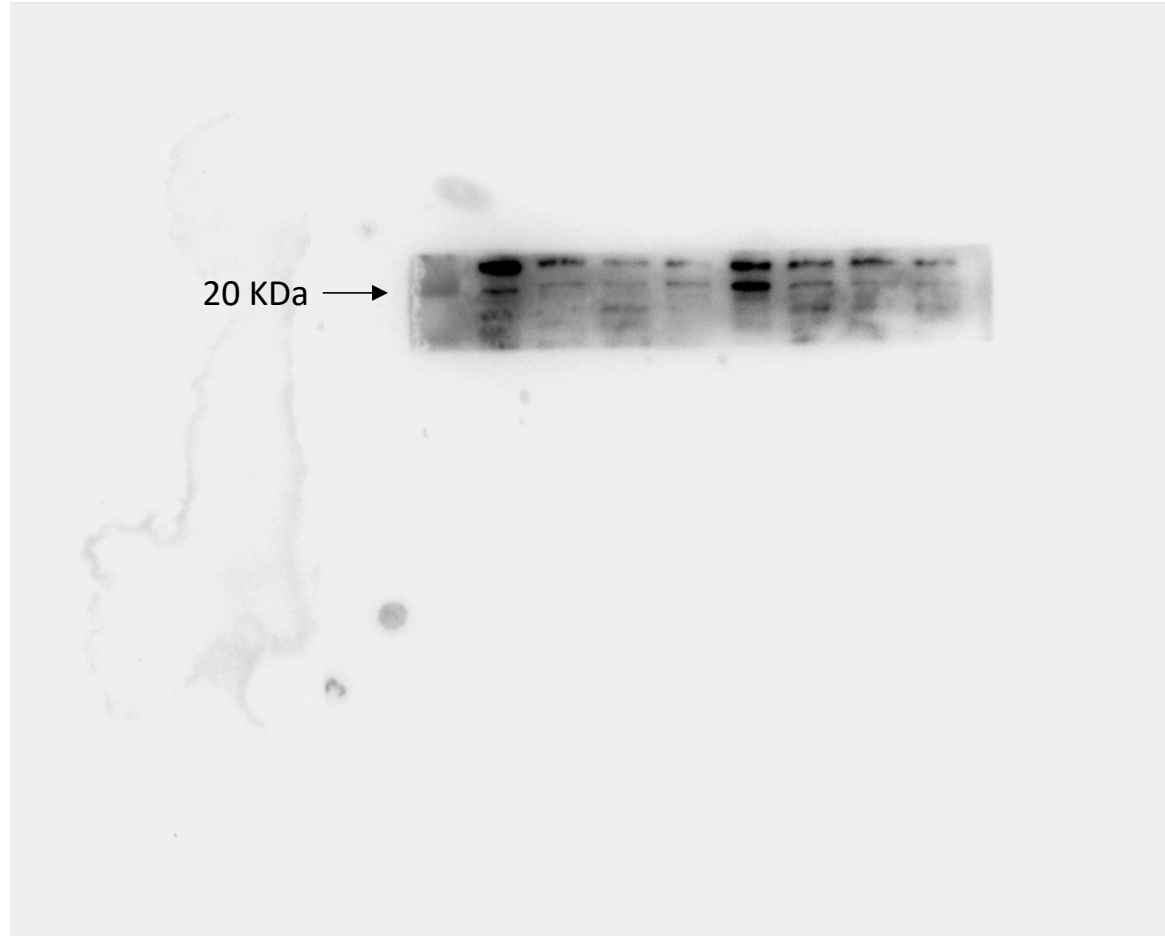
Figure 5-G

Bcl-2 SH-SY5Y Cell

Control | 0.64 μ M BI-D1870 | 1.28 μ M BI-D1870 | 2.56 μ M BI-D1870 ; Control | 0.64 μ M BI-D1870 | 1.28 μ M BI-D1870 | 2.56 μ M BI-D1870

KDa
26

20 KDa →



100 : 63.5 : 48.1 : 126.1 ; 100 : 51.1 : 44.2 : 19.4

Figure 5-G

Caepase 3
Cleaved-caspase 3
SH-SY5Y Cell

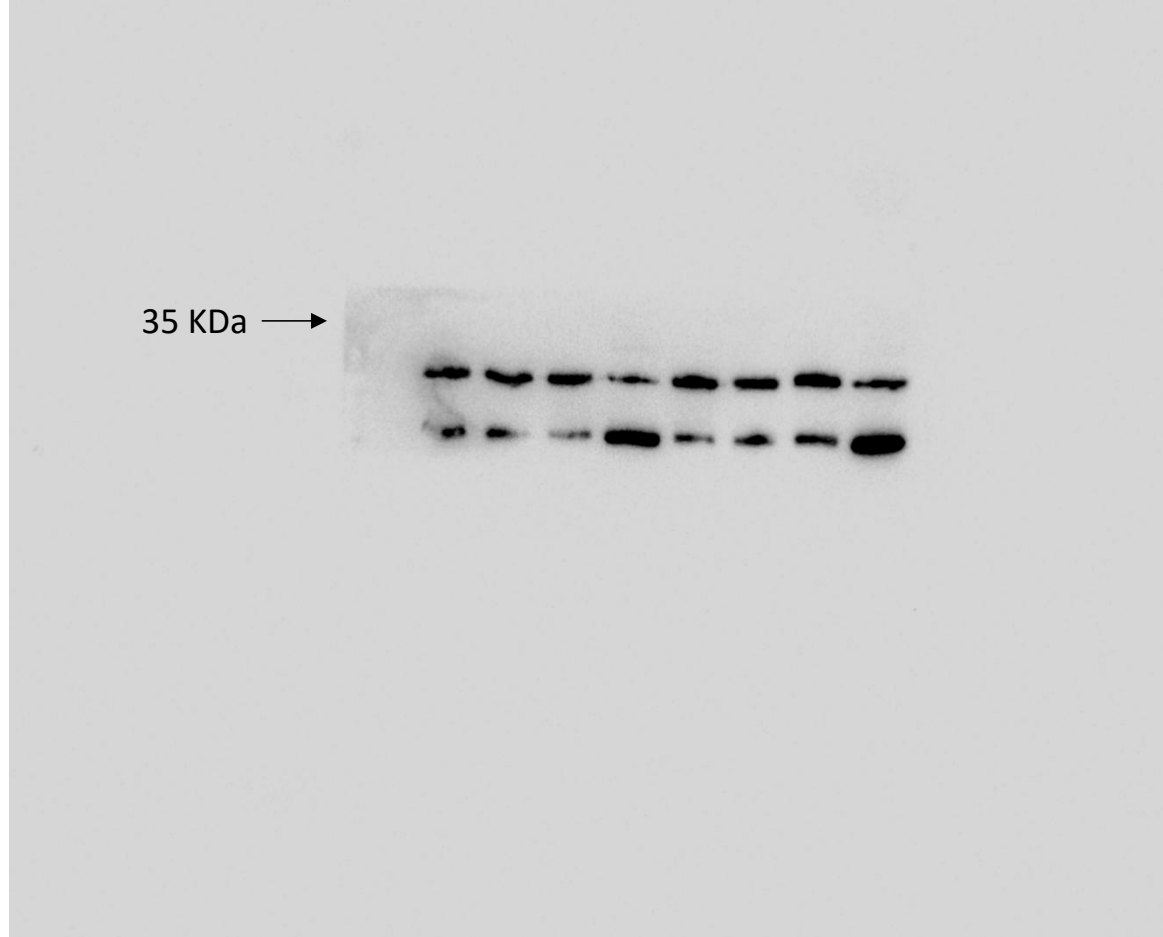
Control | 0.64μM BI-D1870 | 1.28μM BI-D1870 | 2.56μM BI-D1870 ; Control | 0.64μM BI-D1870 | 1.28μM BI-D1870 | 2.56μM BI-D1870

KDa

35 KDa →

32

17



100 : 164 : 198 : 375 ; 100 : 169 : 201 : 388

Figure 5-G

GADPH

SK-N-DZ Cell

Control | 1.305μM BI-D1870 | 2.61μM BI-D1870 | 5.22μM BI-D1870 ; Control | 1.305μM BI-D1870 | 2.61μM BI-D1870 | 5.22μM BI-D1870

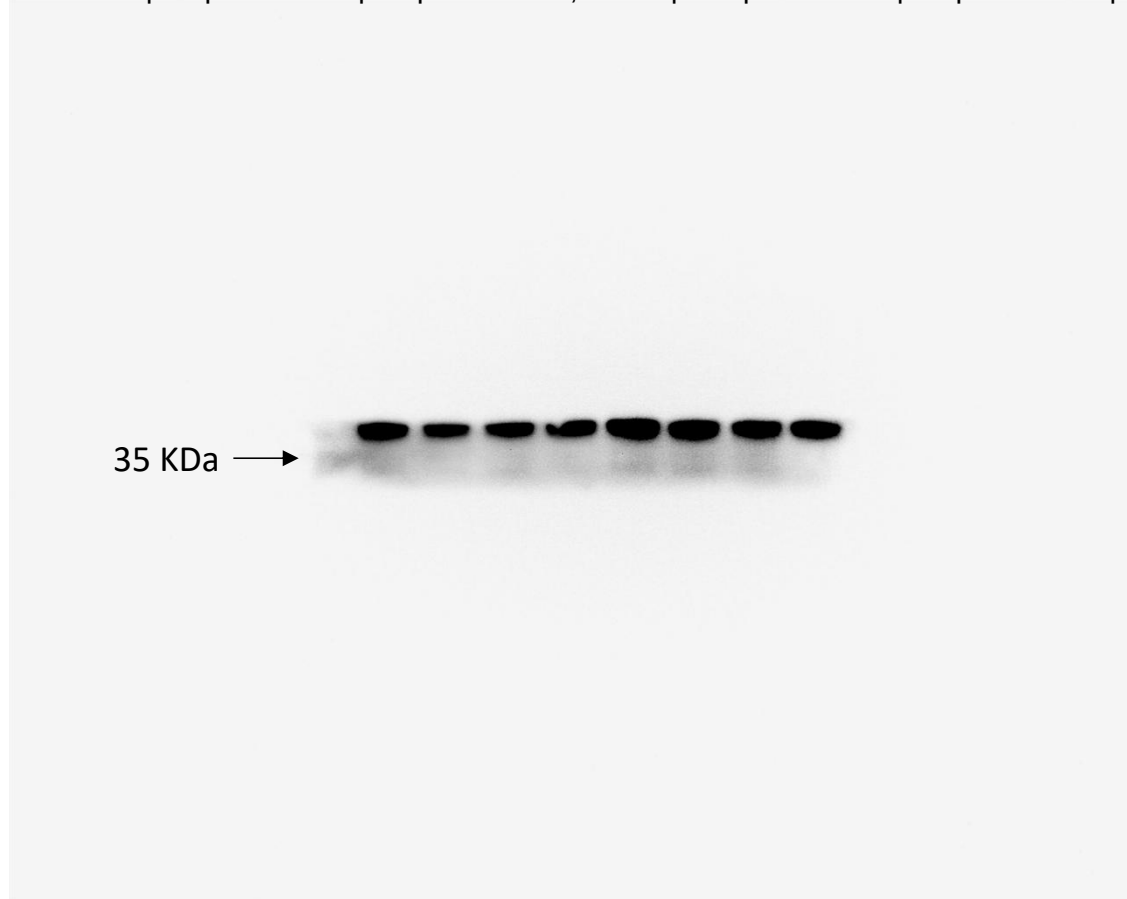
KDa

36

35 KDa →

100 : 100 : 100 : 100 ; 100 : 100 : 100 : 100

Figure 5-H



Bax
SK-N-DZ Cell

Control | 1.305 μ M BI-D1870 | 2.61 μ M BI-D1870 | 5.22 μ M BI-D1870 ; Control | 1.305 μ M BI-D1870 | 2.61 μ M BI-D1870 | 5.22 μ M BI-D1870

KDa

21

20 KDa →



100 : 124 : 160 : 308 ; 100 : 122 : 172 : 311

Figure 5-H

Bcl-2

SK-N-DZ Cell

Control | 1.305μM BI-D1870 | 2.61μM BI-D1870 | 5.22μM BI-D1870 ; Control | 1.305μM BI-D1870 | 2.61μM BI-D1870 | 5.22μM BI-D1870

KDa

26

35 KDa →

20 KDa →

100 : 38.9 : 24.3 : 14.3 ; 100 : 33.1 : 20.1 : 12.6

Figure 5-H

Caspase 3
Cleaved-caspase 3
SK-N-DZ Cell

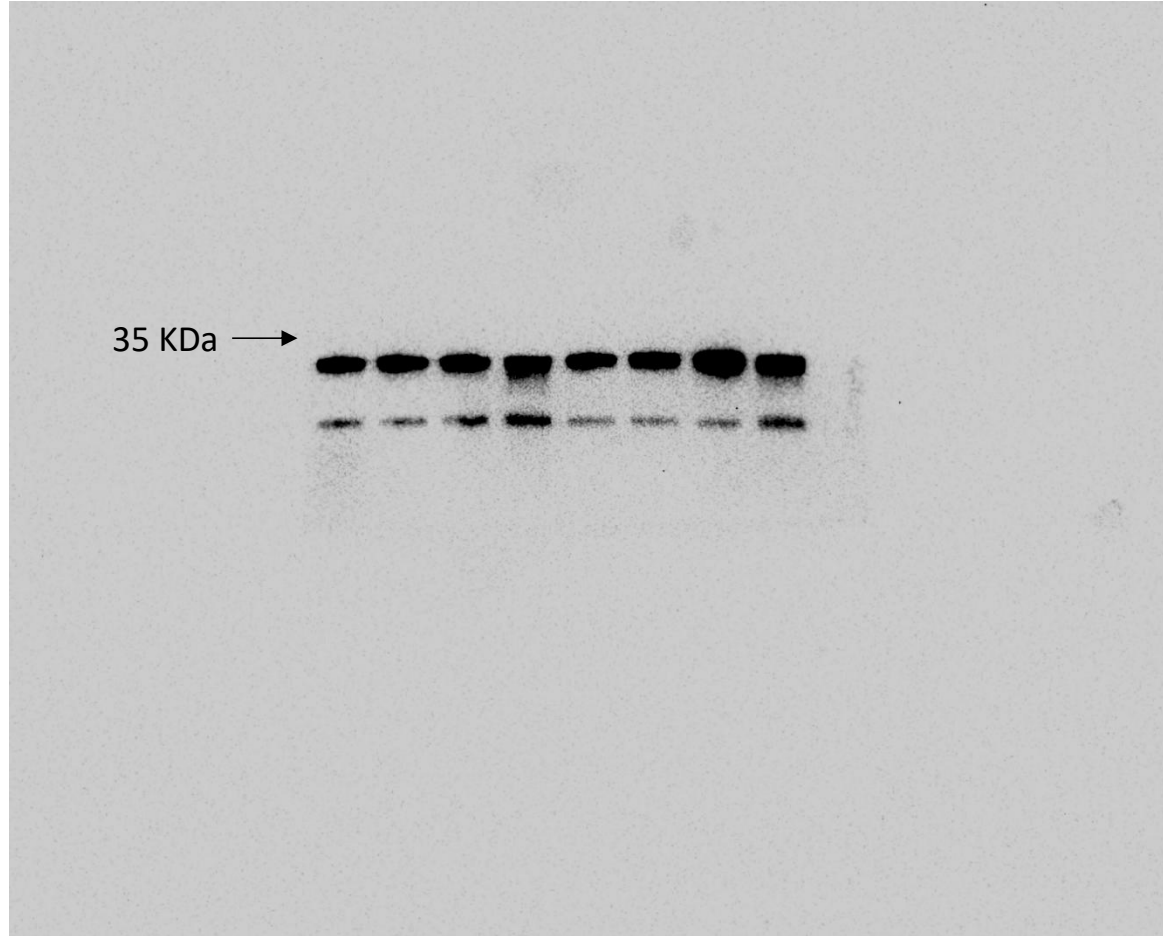
Control | 1.305 μ M BI-D1870 | 2.61 μ M BI-D1870 | 5.22 μ M BI-D1870 ; Control | 1.305 μ M BI-D1870 | 2.61 μ M BI-D1870 | 5.22 μ M BI-D1870

KDa

32

17

35 KDa →



100 : 118 : 131 : 203 ; 100 : 120 : 144 : 211

Figure 5-H

GADPH

SH-SY5Y Cell

Control | 0.64 μ M BI-D1870 | 1.28 μ M BI-D1870 | 2.56 μ M BI-D1870

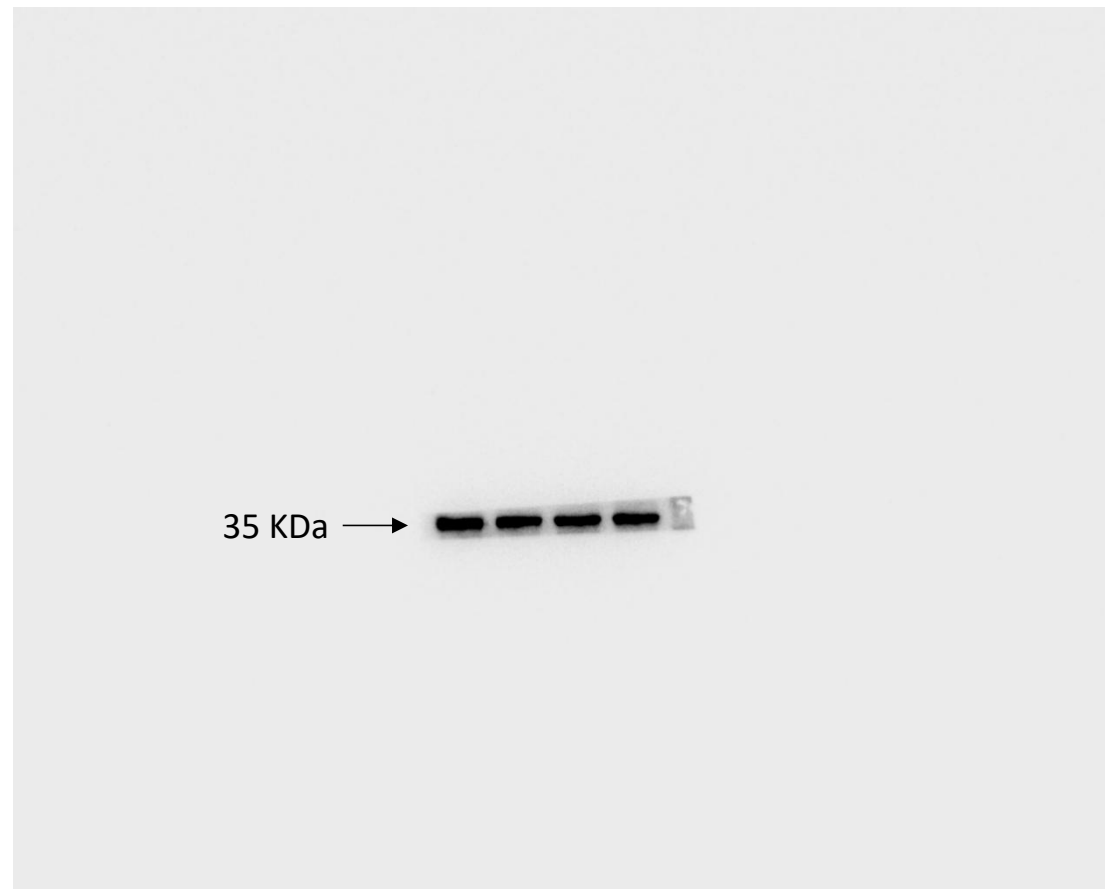
KDa

36

35 KDa →

100 : 100 : 100 : 100

Figure 7-G



PI3K
SH-SY5Y Cell

Control | 0.64 μ M BI-D1870 | 1.28 μ M BI-D1870 | 2.56 μ M BI-D1870

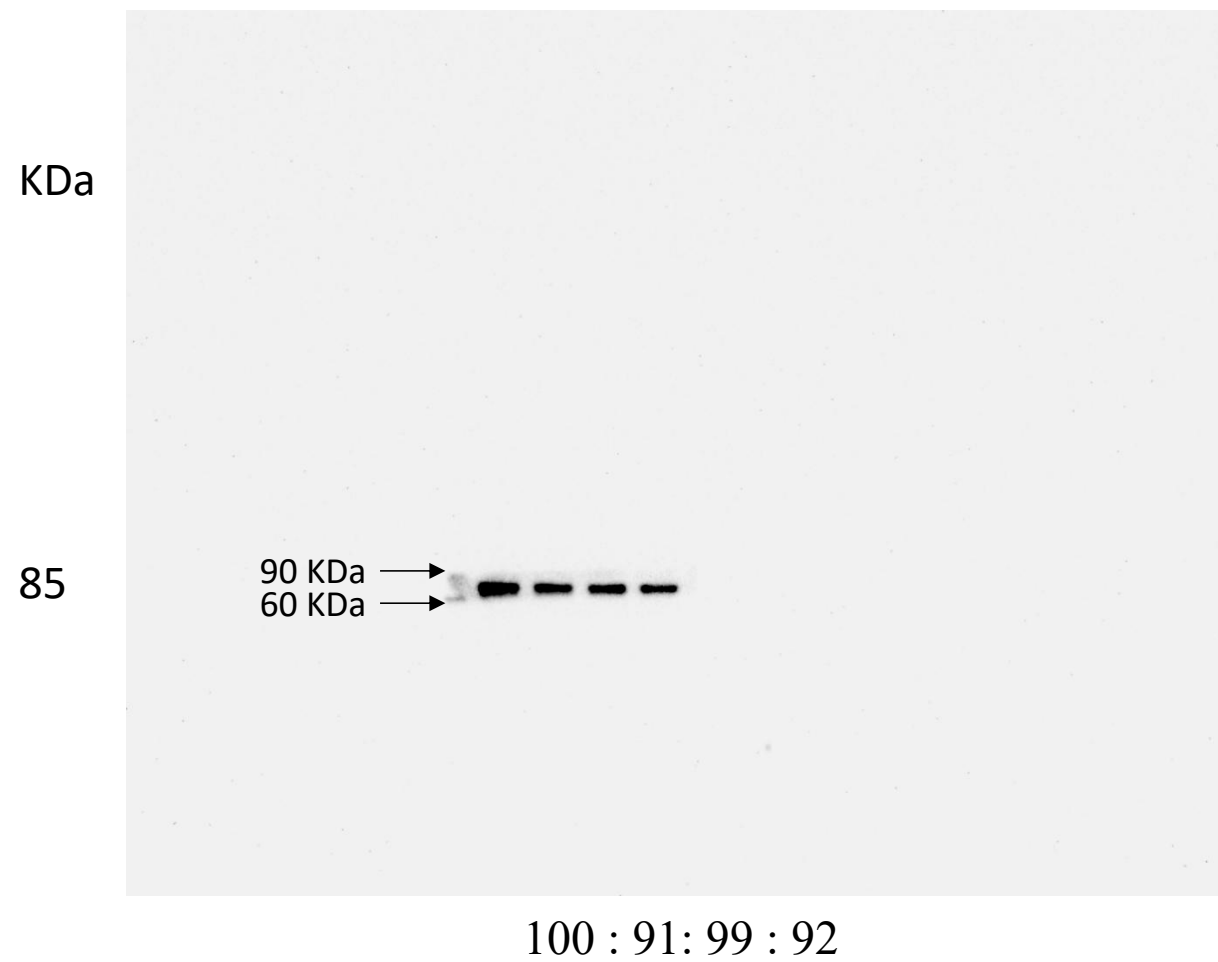


Figure 7-G

p-PI3K
SH-SY5Y Cell

Control | 0.64 μ M BI-D1870 | 1.28 μ M BI-D1870 | 2.56 μ M BI-D1870

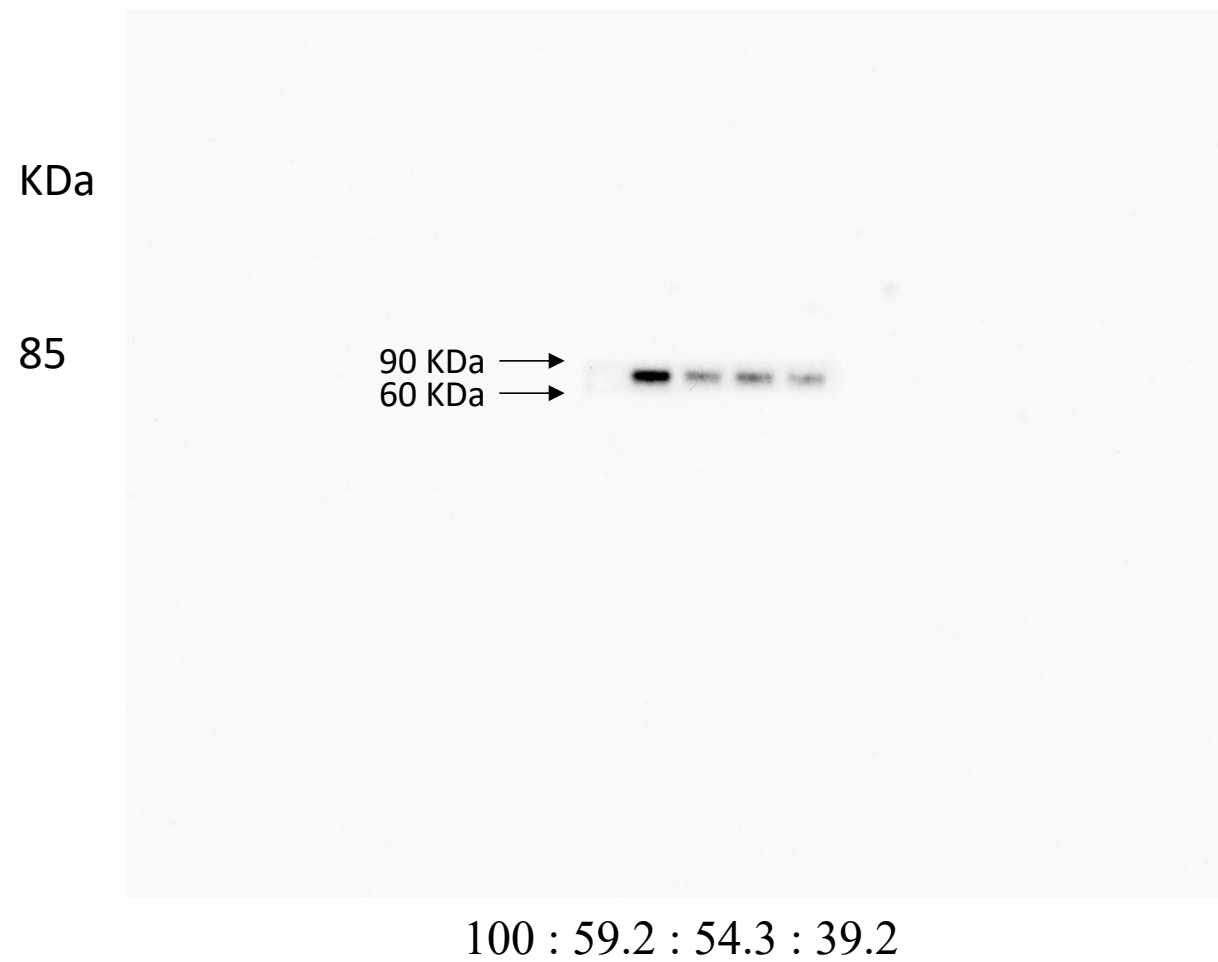


Figure 7-G

Akt
SH-SY5Y Cell

Control | 0.64 μ M BI-D1870 | 1.28 μ M BI-D1870 | 2.56 μ M BI-D1870

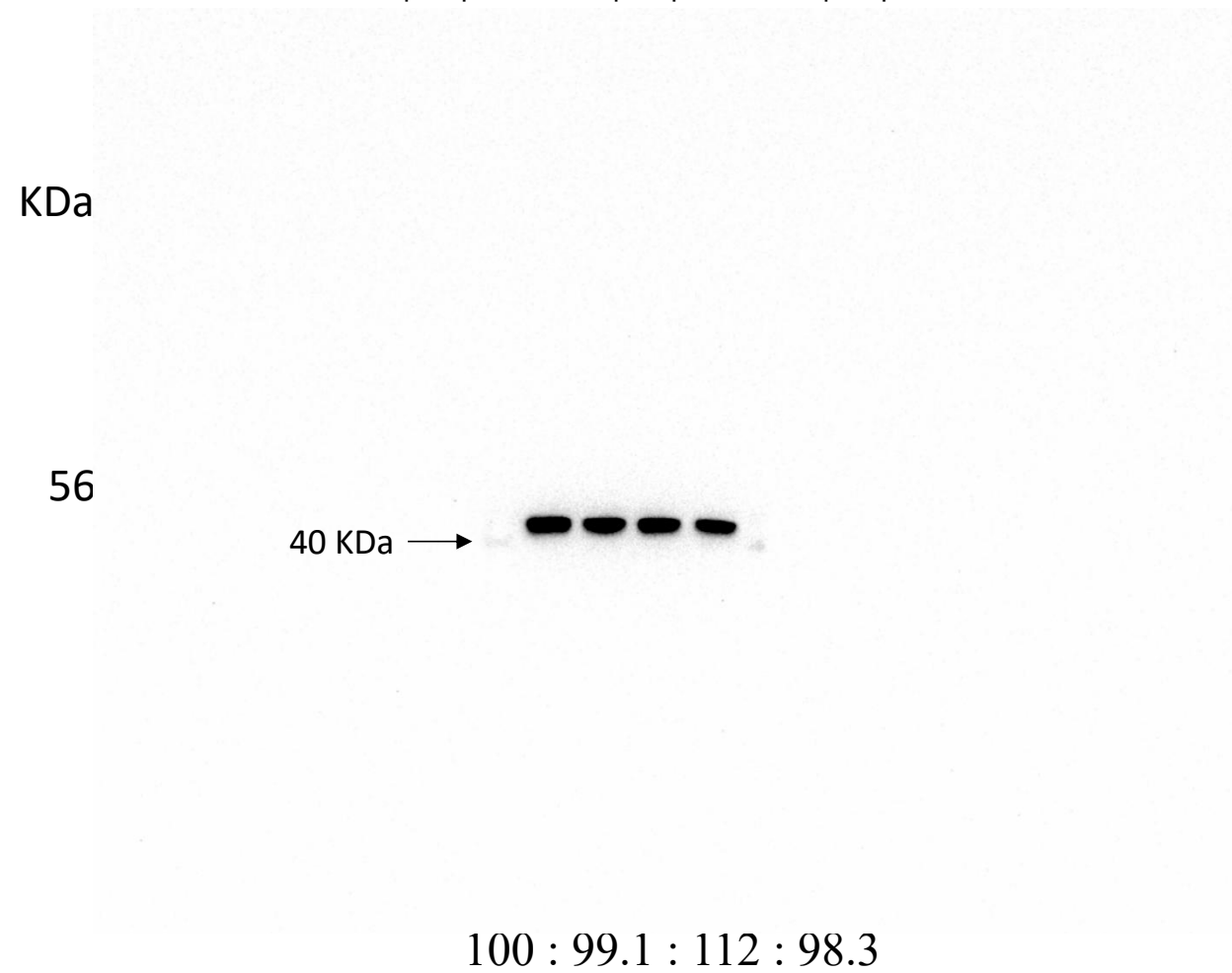


Figure 7-G

p-Akt
SH-SY5Y Cell

Control | 0.64 μ M BI-D1870 | 1.28 μ M BI-D1870 | 2.56 μ M BI-D1870

KDa

56

60 KDa →
40 KDa →

100 : 59.6 : 30.9 : 19.3

Figure 7-G



GADPH

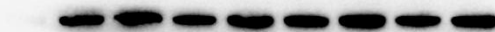
SH-SY5Y Cell

Control | 0.64 μ M BI-D1870 | 1.28 μ M BI-D1870 | 2.56 μ M BI-D1870 ; Control | 0.64 μ M BI-D1870 | 1.28 μ M BI-D1870 | 2.56 μ M BI-D1870

KDa

36

35 KDa →



100:100:100:100 ; 100:100:100:100

Figure 7-G

RSK1

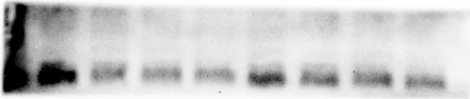
SH-SY5Y Cell

Control | 0.64μM BI-D1870 | 1.28μM BI-D1870 | 2.56μM BI-D1870 ; Control | 0.64μM BI-D1870 | 1.28μM BI-D1870 | 2.56μM BI-D1870

KDa

90

150 KDa→
90 KDa →



100 : 42.2: 41.7: 24.6 ; 100: 40.4 : 29.5 : 19.4

Figure 7-G

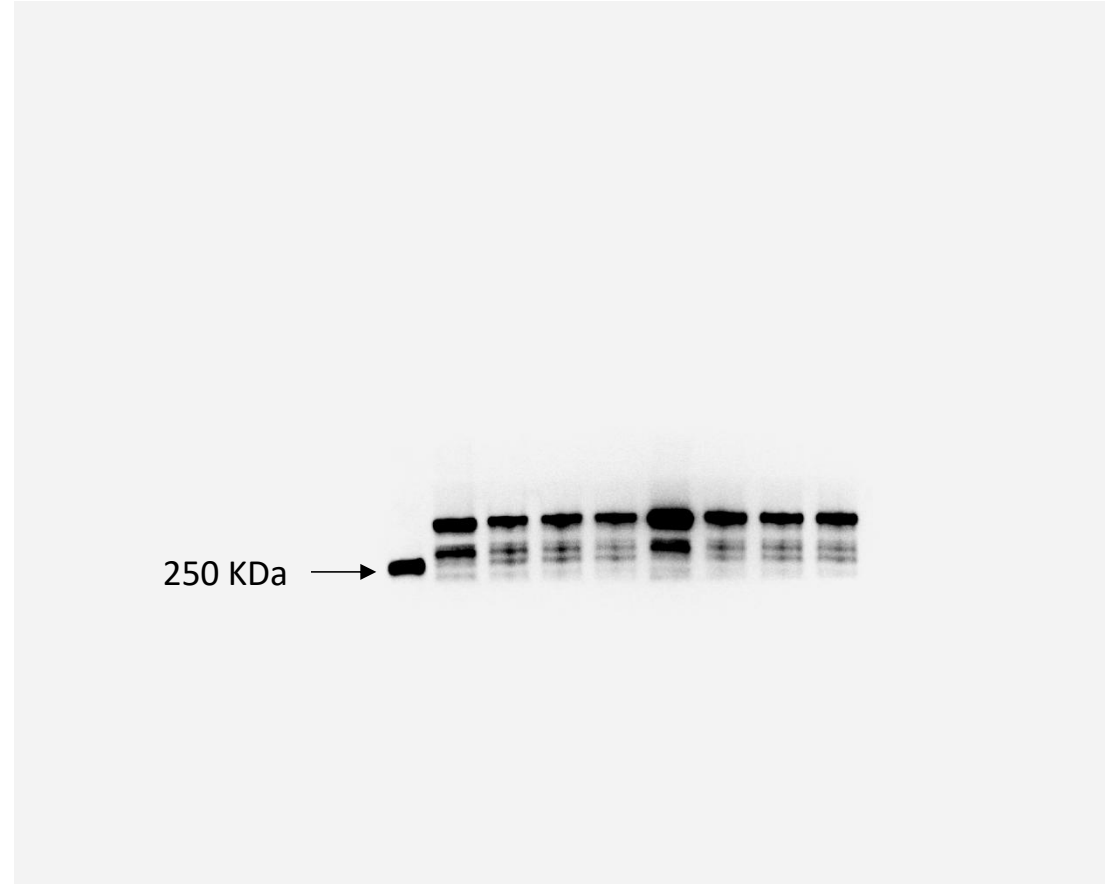
mTOR SH-SY5Y Cell

Control | 0.64μM BI-D1870 | 1.28μM BI-D1870 | 2.56μM BI-D1870 ; Control | 0.64μM BI-D1870 | 1.28μM BI-D1870 | 2.56μM BI-D1870

KDa

289

250 KDa →



100 : 38.0 : 41.3 : 35.7 ; 100 : 62.6 : 43.3 : 37.5

Figure 7-G

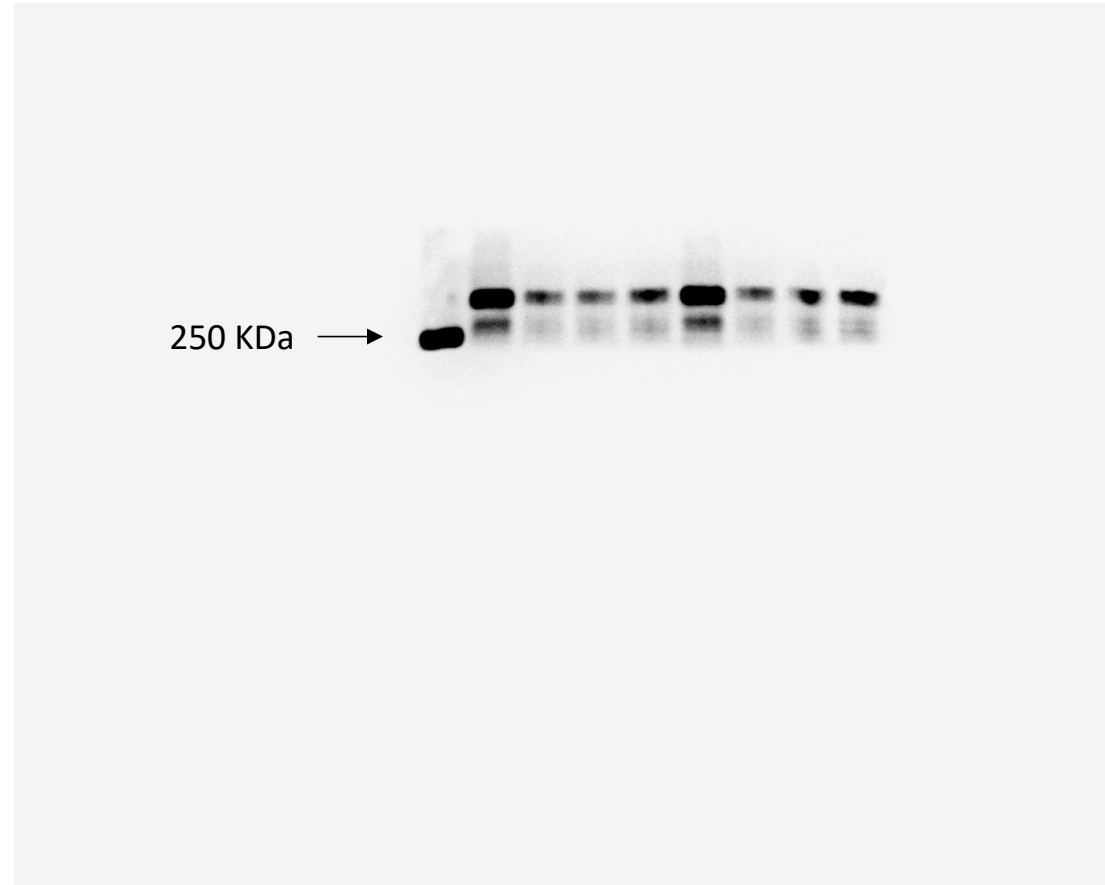
p-mTOR
SH-SY5Y Cell

Control | 0.64 μ M BI-D1870 | 1.28 μ M BI-D1870 | 2.56 μ M BI-D1870 ; Control | 0.64 μ M BI-D1870 | 1.28 μ M BI-D1870 | 2.56 μ M BI-D1870

KDa

289

250 KDa →



100 : 14.3 : 12.9: 17.3 ; 100 : 13.0 : 14.2 : 15.9

Figure 7-G

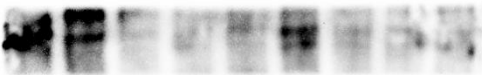
Raptor
SH-SY5Y Cell

Control | 0.64μM BI-D1870 | 1.28μM BI-D1870 | 2.56μM BI-D1870 ; Control | 0.64μM BI-D1870 | 1.28μM BI-D1870 | 2.56μM BI-D1870

KDa

149

150 KDa



100 : 25.3 : 20.9: 16.3 ; 100 : 37.9: 37.8 : 25.8

Figure 7-G

RPS1 SH-SY5Y Cell

Control | 0.64μM BI-D1870 | 1.28μM BI-D1870 | 2.56μM BI-D1870 ; Control | 0.64μM BI-D1870 | 1.28μM BI-D1870 | 2.56μM BI-D1870

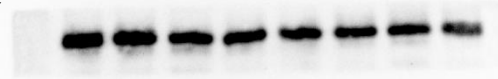
KDa

29

35 KDa



20 KDa



100 : 103 : 96 : 86 ; 100 : 97 : 92 : 83

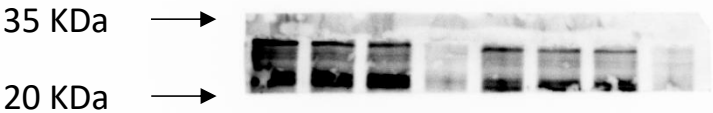
Figure 7-G

p-RPS1
SH-SY5Y Cell

Control | 0.64μM BI-D1870 | 1.28μM BI-D1870 | 2.56μM BI-D1870 ; Control | 0.64μM BI-D1870 | 1.28μM BI-D1870 | 2.56μM BI-D1870

KDa

29



100 : 71.2 : 66.2 : 13 ; 100 : 69.5: 66.1 : 21

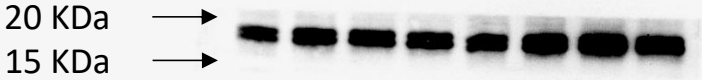
Figure 7-G

4E BP1
SH-SY5Y Cell

Control | 0.64μM BI-D1870 | 1.28μM BI-D1870 | 2.56μM BI-D1870 ; Control | 0.64μM BI-D1870 | 1.28μM BI-D1870 | 2.56μM BI-D1870

KDa

17



100 : 113 : 112: 111 ; 100 : 104: 106 : 105

Figure 7-G

p-4E BP1
SH-SY5Y Cell

Control | 0.64μM BI-D1870 | 1.28μM BI-D1870 | 2.56μM BI-D1870 ; Control | 0.64μM BI-D1870 | 1.28μM BI-D1870 | 2.56μM BI-D1870

KDa

17

20 KDa
15 KDa



100 : 45.1 : 20.2 : 22.4 ; 100 : 27.2 : 12 : 8

Figure 7-G

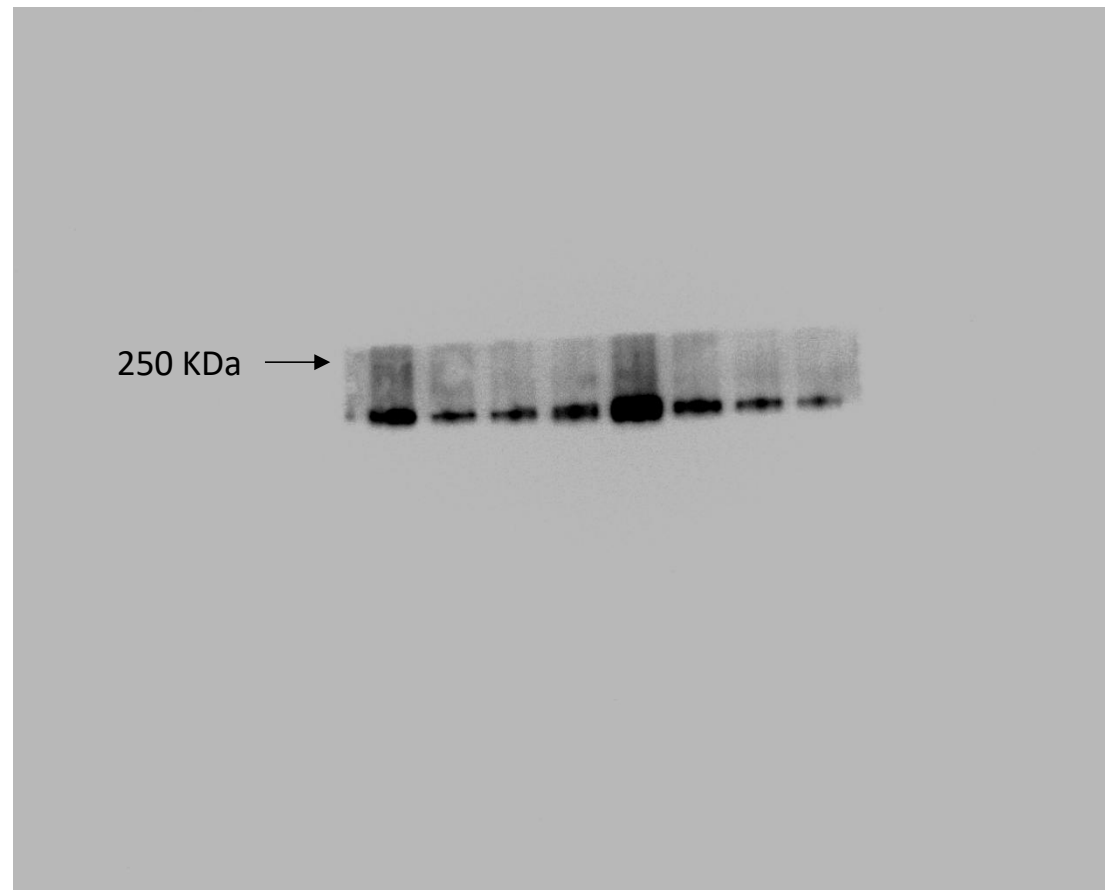
CLIP170 SH-SY5Y Cell

Control | 0.64μM BI-D1870 | 1.28μM BI-D1870 | 2.56μM BI-D1870 ; Control | 0.64μM BI-D1870 | 1.28μM BI-D1870 | 2.56μM BI-D1870

KDa

170

250 KDa →



100 : 22 : 20 : 23 ; 100 : 46.3 : 25 : 7

Figure 7-G

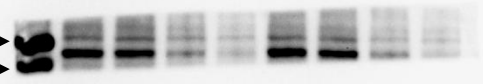
Aurora A
SH-SY5Y Cell

MARKER | Control | 0.64μM BI-D1870 | 1.28μM BI-D1870 | 2.56μM BI-D1870 ; Control | 0.64μM BI-D1870 | 1.28μM BI-D1870 | 2.56μM BI-D1870

KDa

46

60 KDa
40 KDa



100 : 66 : 40.1 : 33 ; 100 : 57.3 : 35 : 27

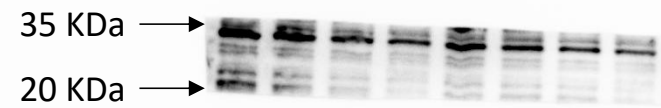
Figure 7-G

CDK1 SH-SY5Y Cell

Control | 0.64μM BI-D1870 | 1.28μM BI-D1870 | 2.56μM BI-D1870 ; Control | 0.64μM BI-D1870 | 1.28μM BI-D1870 | 2.56μM BI-D1870

KDa

34



100 : 79.9 : 62.0 : 49 ; 100 : 72.7: 55.3 : 32.6

Figure 7-G

GAPDH
SH-SY5Y Cell

Control | 1.28μM BI-D1870 6h | 1.28μM BI-D1870 12h

KDa

36

35 KDa →



100 :100 : 100

Figure 7-I

PI3K
SH-SY5Y Cell

Control | 1.28 μ M BI-D1870 6h | 1.28 μ M BI-D1870 12h

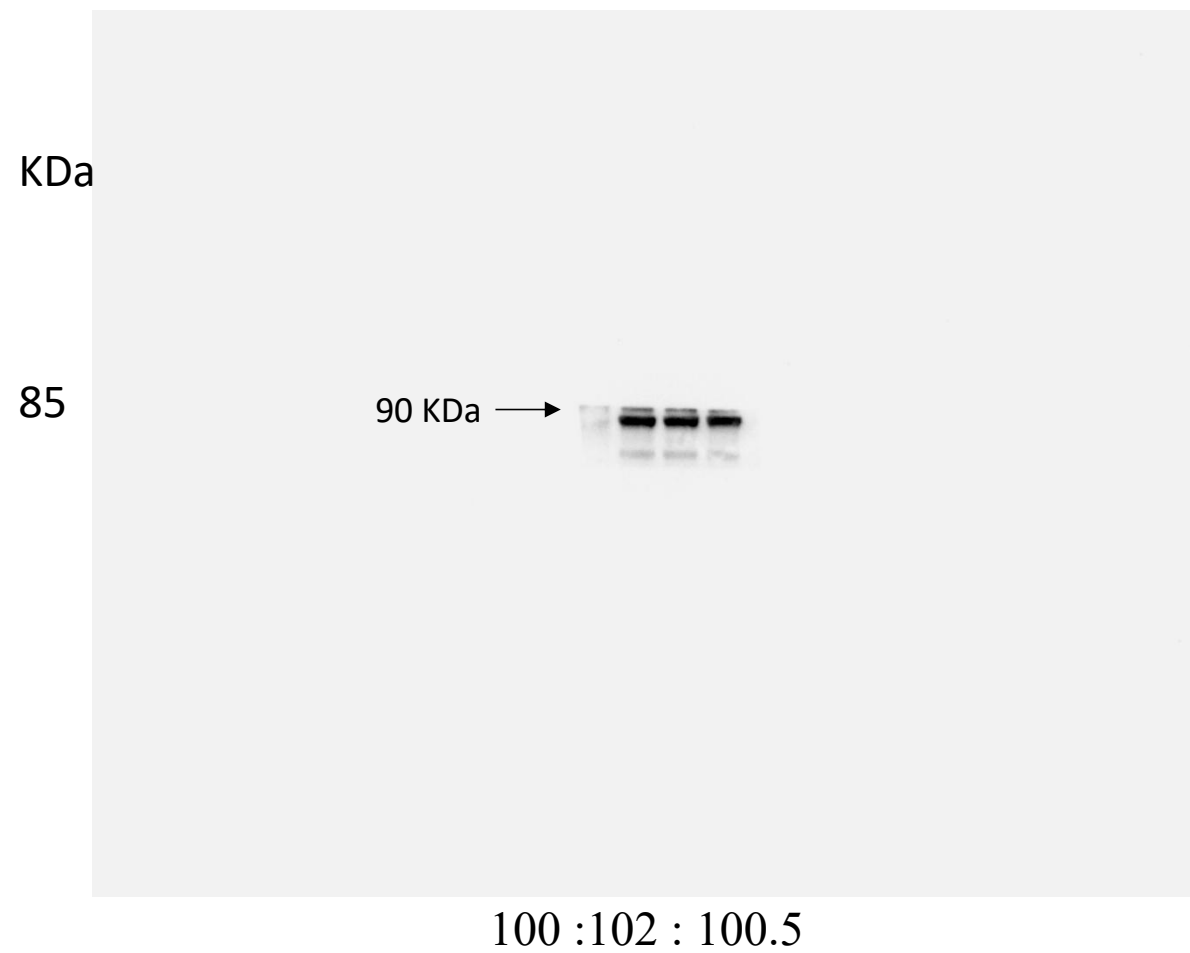


Figure 7-I

p-PI3K
SH-SY5Y Cell

Control | 1.28 μ M BI-D1870 6h | 1.28 μ M BI-D1870 12h

KDa

85

90 KDa



100 : 95.5 : 53.6

Figure 7-I

Akt

SH-SY5Y Cell

Control | 1.28μM BI-D1870 6h | 1.28μM BI-D1870 12h

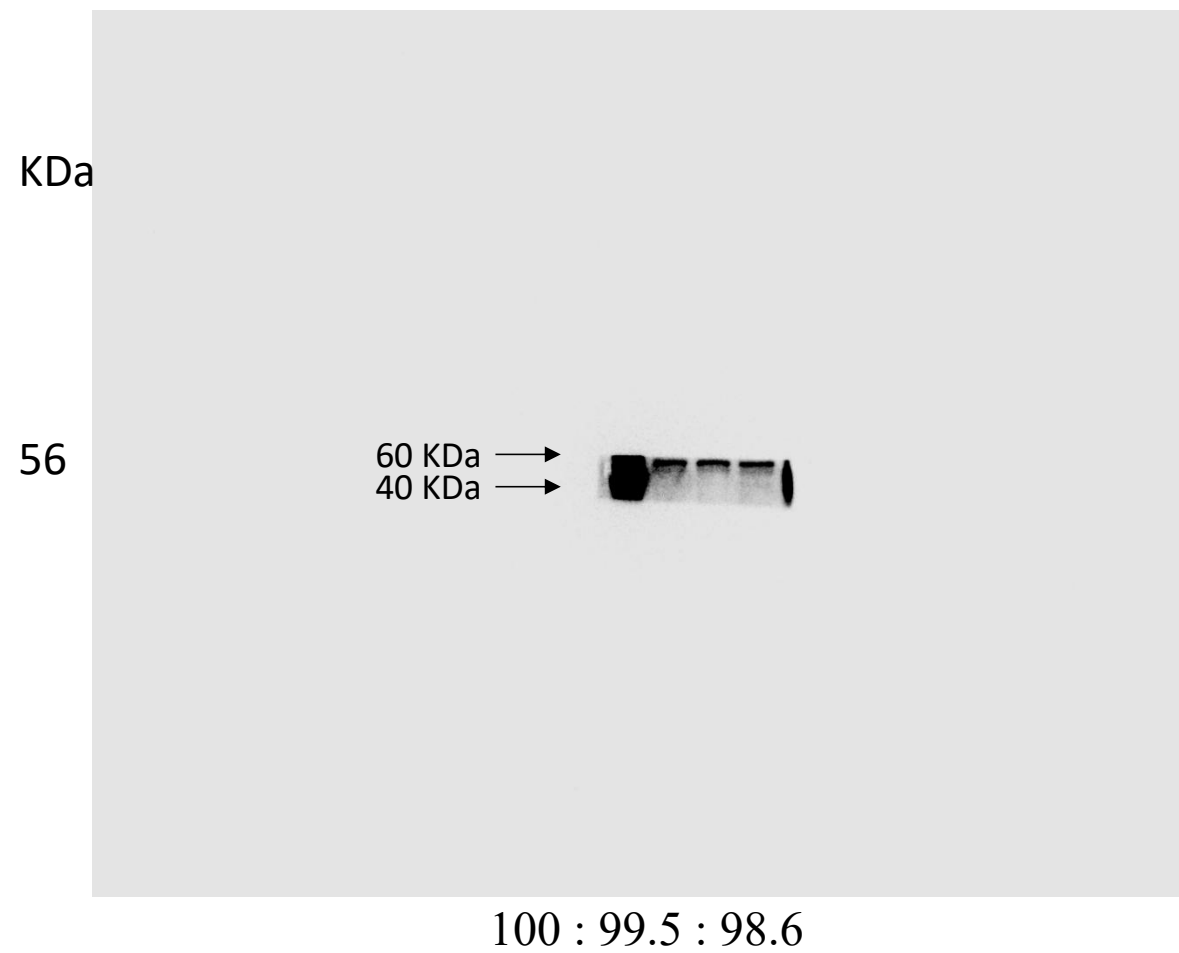


Figure 7-I

p-Akt
SH-SY5Y Cell

Control | 1.28 μ M BI-D1870 6h | 1.28 μ M BI-D1870 12h

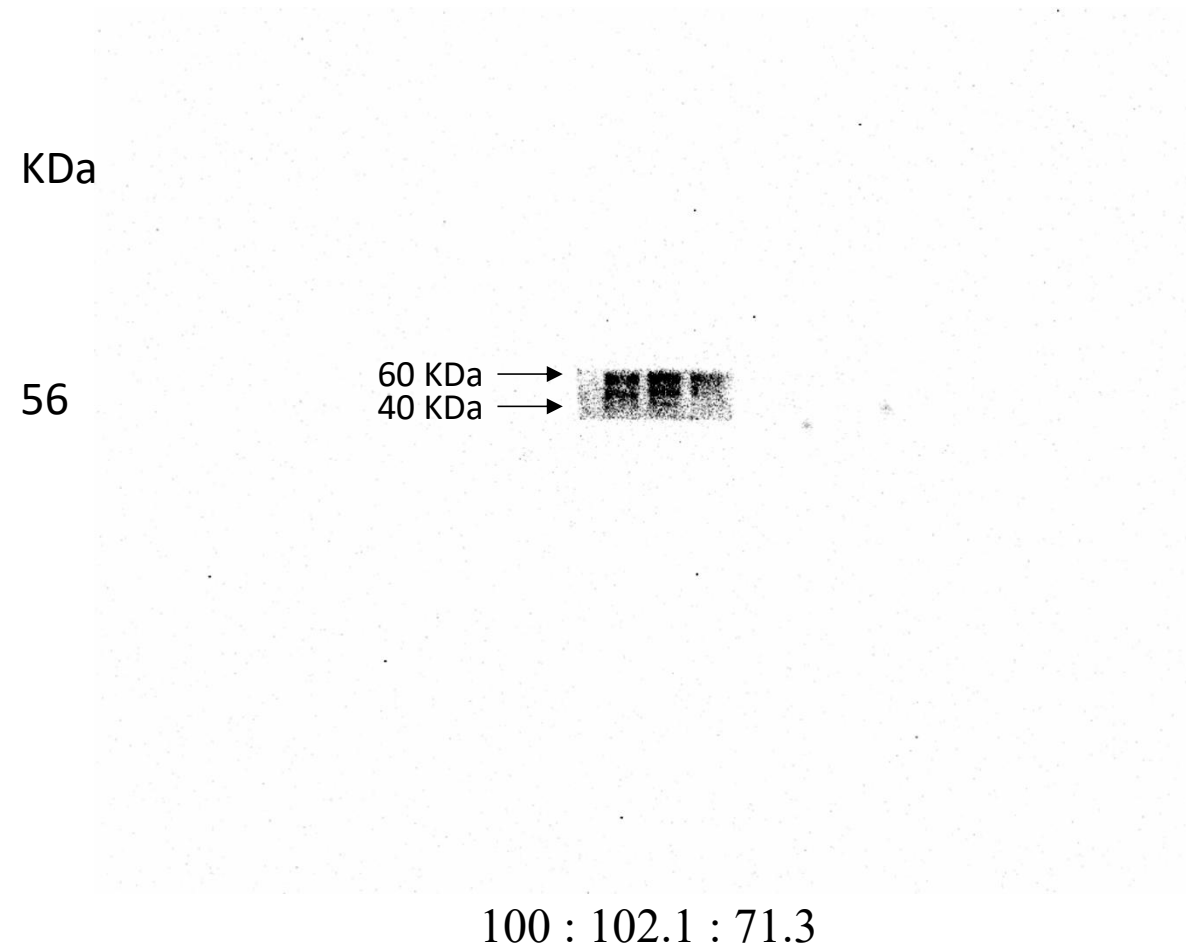


Figure 7-I