Arrestins contribute to amyloid beta-induced cell death via modulation of autophagy and the α7nAch receptor in SH-SY5Y cells

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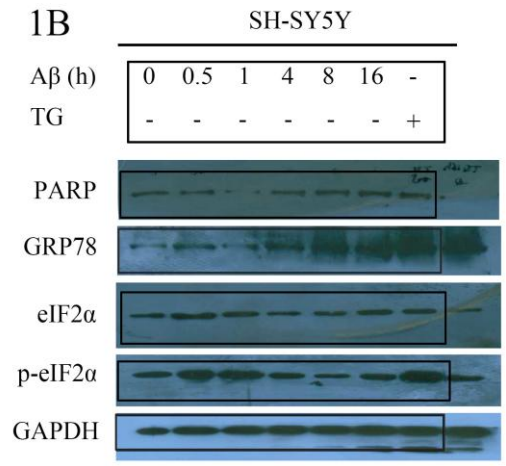
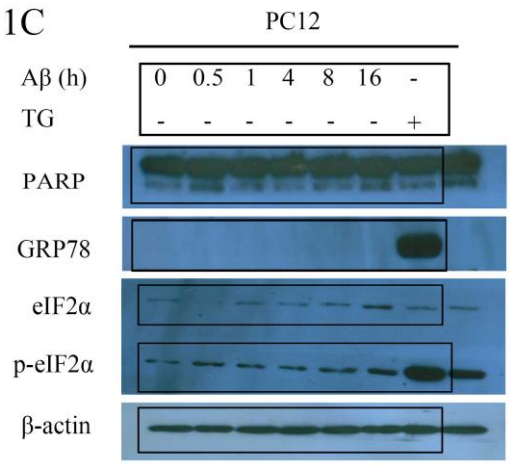
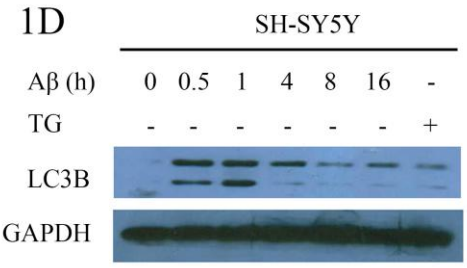
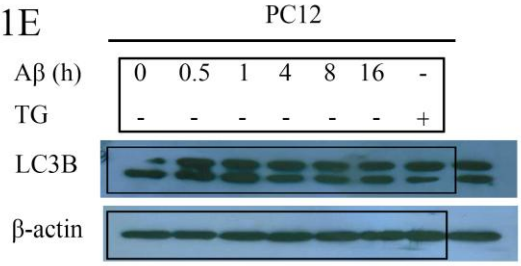
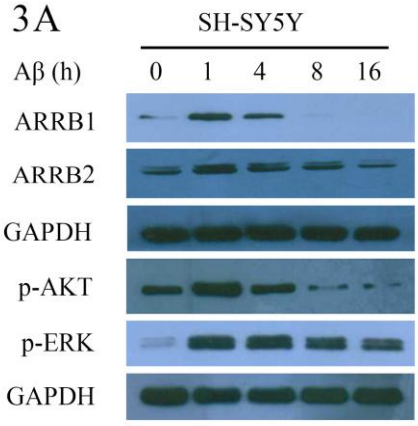
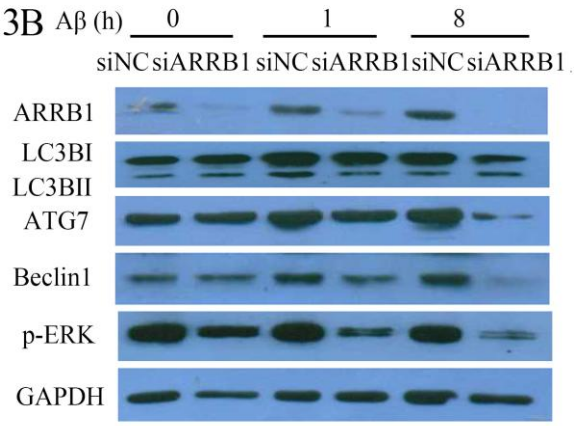

1B
SH-SY5Y
Aβ (h)
0 0.5 1 4 8 16 -
TG
- - - - - - +
PARP
GRP78
eIF2α
p-eIF2α
GAPDH

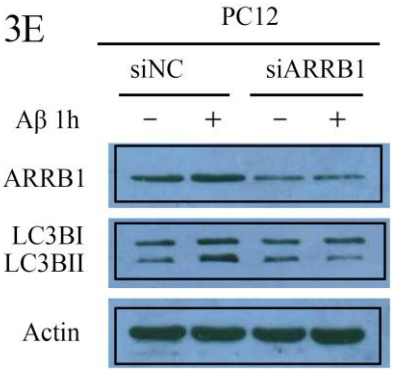

1C
PC12
Aβ (h)
0 0.5 1 4 8 16 -
TG
- - - - - - +
PARP
GRP78
eIF2α
p-eIF2α
β-actin

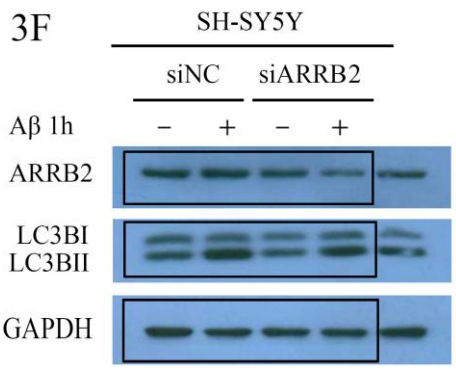

1D
SH-SY5Y
Aβ (h)
0 0.5 1 4 8 16 -
TG
- - - - - - +
LC3B
GAPDH

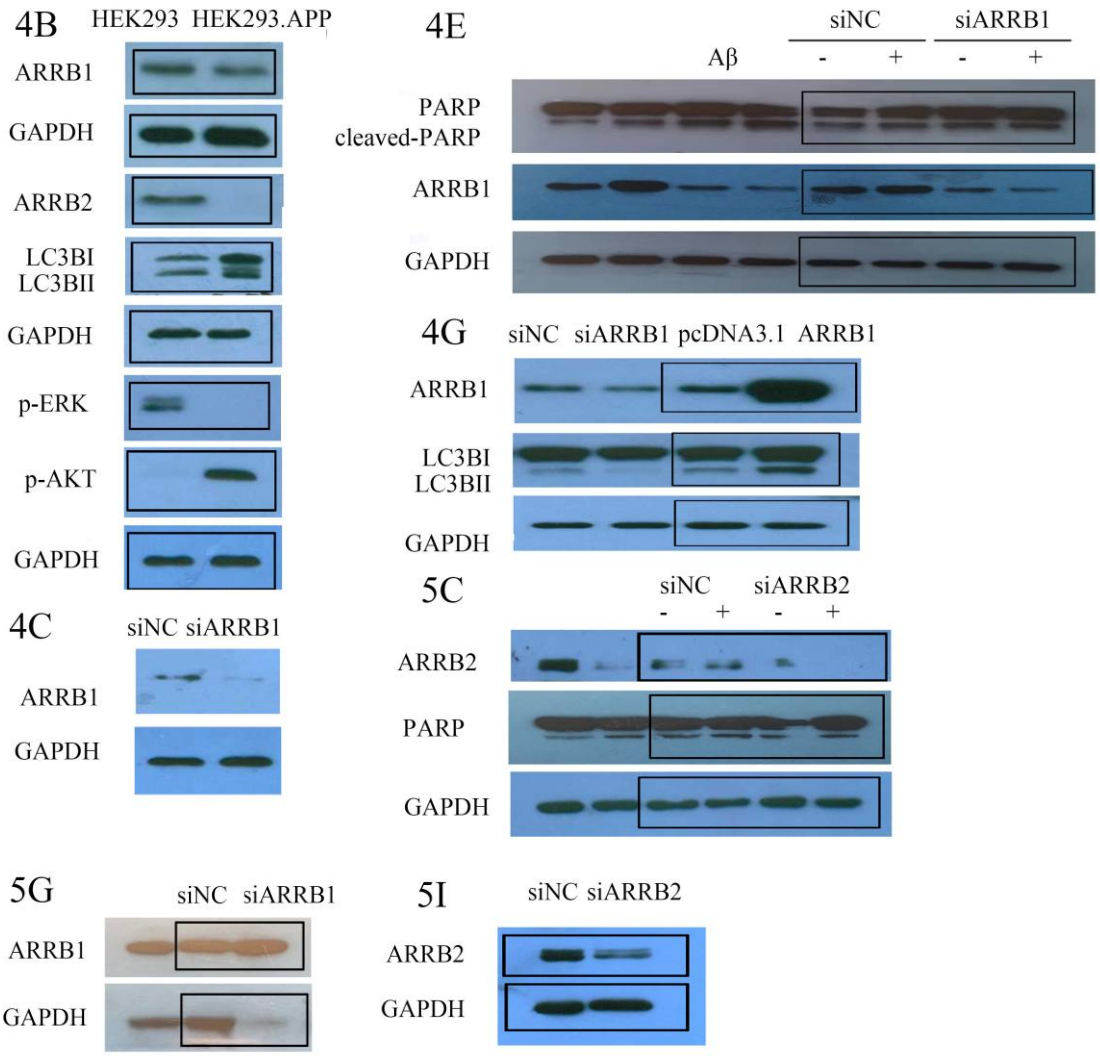

1E
PC12
Aβ (h)
0 0.5 1 4 8 16 -
TG
- - - - - - +
LC3B
β-actin


3A
SH-SY5Y
Aβ (h)
0 1 4 8 16
ARRB1
ARRB2
GAPDH
p-AKT
p-ERK
GAPDH


3B
Aβ (h)
0
1
8
siNC siARRB1 siNC siARRB1 siNC siARRB1
ARRB1
LC3BI
LC3BII
ATG7
Beclin1
p-ERK
GAPDH


3E
PC12
siNC
siARRB1
Aβ 1h
− + − +
ARRB1
LC3BI
LC3BII
Actin


3F
SH-SY5Y
siNC
siARRB2
Aβ 1h
− + − +
ARRB2
LC3BI
LC3BII
GAPDH


4B
HEK293
HEK293.APP
ARRB1
GAPDH
ARRB2
LC3BI
LC3BII
GAPDH
p-ERK
p-AKT
GAPDH
4C
siNC
siARRB1
ARRB1
GAPDH
4E
siNC
siARRB1
Aβ
- + - +
PARP
cleaved-PARP
ARRB1
GAPDH
4G
siNC
siARRB1
pcDNA3.1
ARRB1
ARRB1
LC3BI
LC3BII
GAPDH
5C
siNC
siARRB2
- + - +
ARRB2
PARP
GAPDH
5G
siNC
siARRB1
ARRB1
GAPDH
5I
siNC
siARRB2
ARRB2
GAPDH