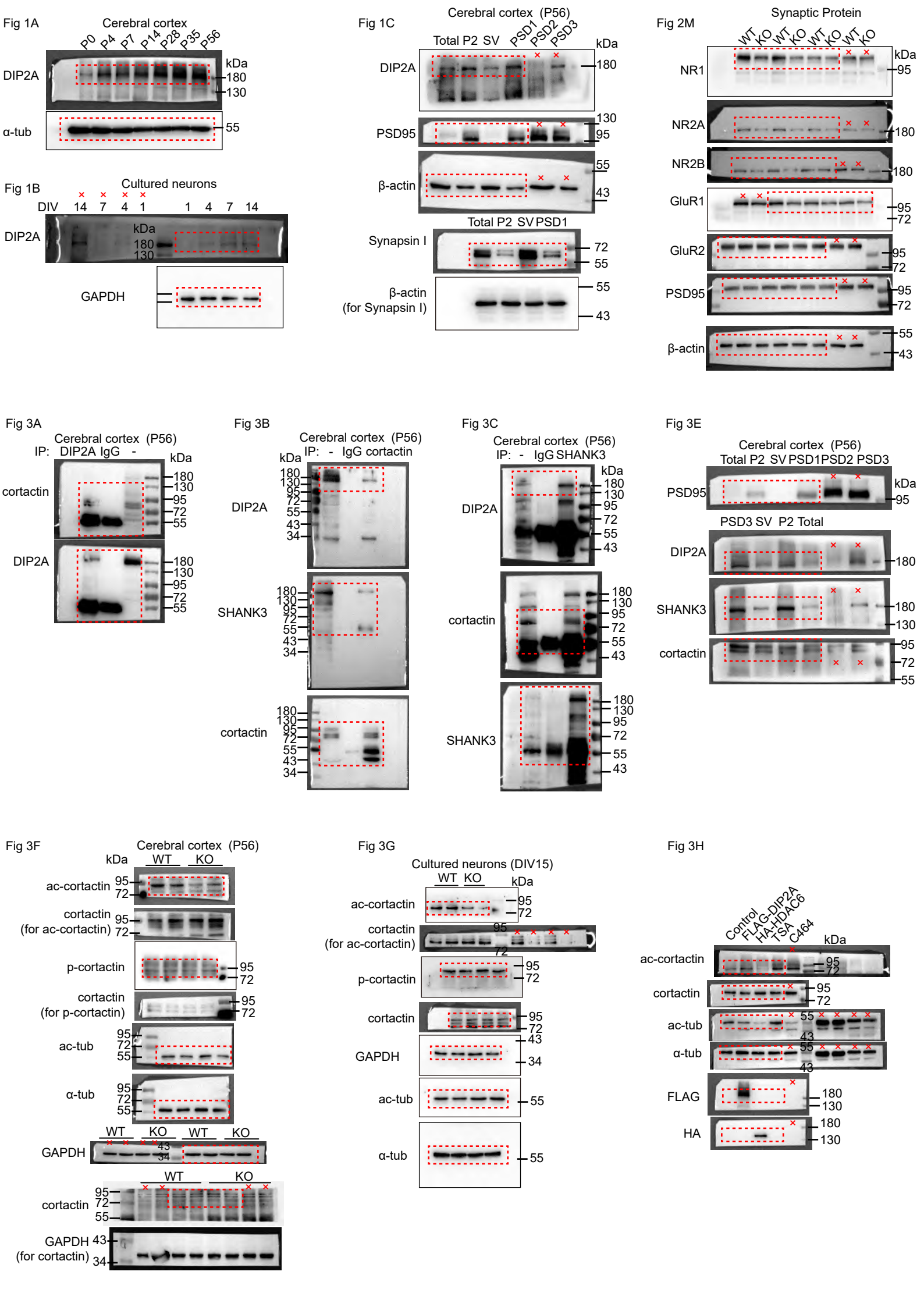


Fig 1A
Cerebral cortex
P0 P4 P7 P14 P28 P35 P56
DIP2A
α-tub
kDa
180
130
55
Fig 1B
Cultured neurons
DIV 14 7 4 1 1 4 7 14
DIP2A
kDa
180
130
GAPDH
Fig 1C
Cerebral cortex (P56)
Total P2 SV PSD1 PSD2 PSD3
DIP2A
PSD95
β-actin
Synapsin I
Total P2 SV PSD1
β-actin
(for Synapsin I)
Fig 2M
Synaptic Protein
WT KO WT KO WT KO WT KO
NR1
NR2A
NR2B
GluR1
GluR2
PSD95
β-actin
Fig 3A
Cerebral cortex (P56)
IP: DIP2A IgG -
cortactin
DIP2A
Fig 3B
Cerebral cortex (P56)
IP: - IgG cortactin
DIP2A
SHANK3
cortactin
Fig 3C
Cerebral cortex (P56)
IP: - IgG SHANK3
DIP2A
cortactin
SHANK3
Fig 3E
Cerebral cortex (P56)
Total P2 SV PSD1 PSD2 PSD3
PSD95
PSD3 SV P2 Total
DIP2A
SHANK3
cortactin
Fig 3F
Cerebral cortex (P56)
WT KO
ac-cortactin
cortactin
(for ac-cortactin)
p-cortactin
cortactin
(for p-cortactin)
ac-tub
α-tub
GAPDH
cortactin
GAPDH
(for cortactin)
Fig 3G
Cultured neurons (DIV15)
WT KO
ac-cortactin
cortactin
(for ac-cortactin)
p-cortactin
cortactin
GAPDH
ac-tub
α-tub
Fig 3H
Control
FLAG-DIP2A
HA-HDAC6
TSA
C464
ac-cortactin
cortactin
ac-tub
α-tub
FLAG
HA

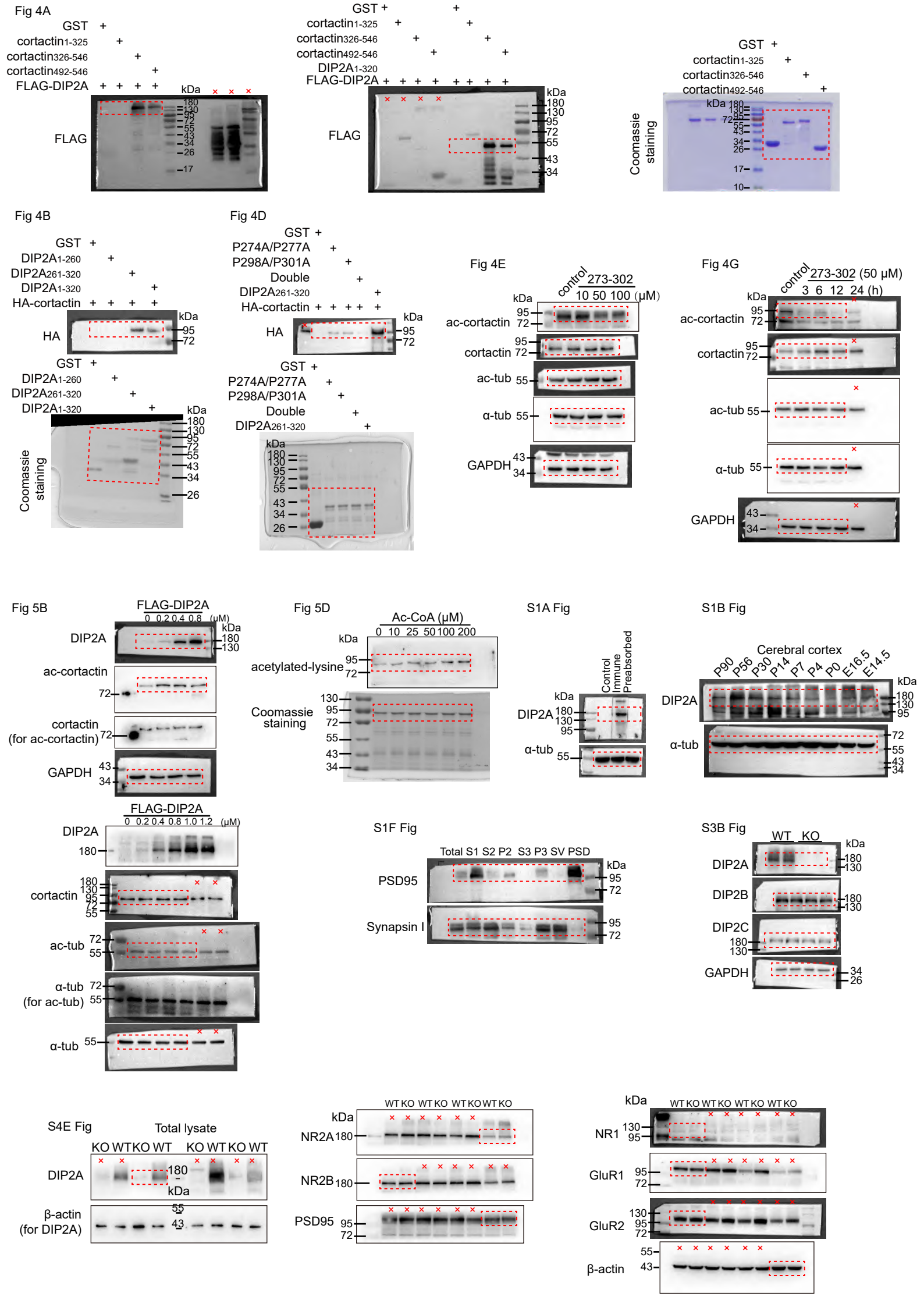
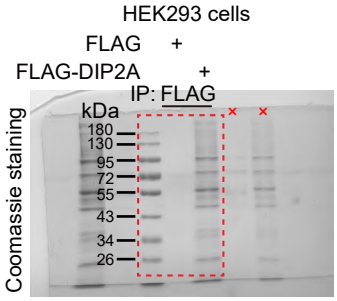
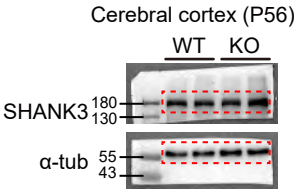


Fig 4A
GST
cortactin1-325
cortactin326-546
cortactin492-546
FLAG-DIP2A
kDa
FLAG
180
130
95
72
55
43
34
26
17
GST
cortactin1-325
cortactin326-546
cortactin492-546
DIP2A1-320
FLAG-DIP2A
kDa
FLAG
180
130
95
72
55
43
34
GST
cortactin1-325
cortactin326-546
cortactin492-546
kDa
Coomassie staining
180
130
95
72
55
43
34
26
17
10
Fig 4B
GST
DIP2A1-260
DIP2A261-320
DIP2A1-320
HA-cortactin
kDa
HA
95
72
GST
DIP2A1-260
DIP2A261-320
DIP2A1-320
kDa
Coomassie staining
180
130
95
72
55
43
34
26
Fig 4D
GST
P274A/P277A
P298A/P301A
Double
DIP2A261-320
HA-cortactin
kDa
HA
95
72
GST
P274A/P277A
P298A/P301A
Double
DIP2A261-320
kDa
180
130
95
72
55
43
34
26
Fig 4E
control
273-302
10 50 100 (μM)
kDa
ac-cortactin
95
72
cortactin
95
72
ac-tub
55
α-tub
55
GAPDH
43
34
Fig 4G
control
273-302 (50 μM)
3 6 12 24 (h)
kDa
ac-cortactin
95
72
cortactin
95
72
ac-tub
55
α-tub
55
GAPDH
43
34
Fig 5B
FLAG-DIP2A
0 0.2 0.4 0.8 (μM)
kDa
DIP2A
180
130
ac-cortactin
72
cortactin
(for ac-cortactin)
72
GAPDH
43
34
Fig 5D
Ac-CoA (μM)
0 10 25 50 100 200
kDa
acetylated-lysine
95
72
Coomassie staining
130
95
72
55
43
34
S1A Fig
Control
Immune
Preabsorbed
kDa
DIP2A
180
130
95
α-tub
55
S1B Fig
Cerebral cortex
P90 P56 P30 P14 P7 P4 P0 E16.5 E14.5
kDa
DIP2A
180
130
95
α-tub
72
55
43
34
FLAG-DIP2A
0 0.2 0.4 0.8 1.0 1.2 (μM)
DIP2A
180
cortactin
180
130
95
72
55
ac-tub
72
55
α-tub
(for ac-tub)
72
55
α-tub
55
S1F Fig
Total S1 S2 P2 S3 P3 SV PSD
kDa
PSD95
95
72
Synapsin I
95
72
S3B Fig
WT KO
kDa
DIP2A
180
130
DIP2B
180
130
DIP2C
180
130
GAPDH
34
26
S4E Fig
Total lysate
KO WT KO WT KO WT KO WT
DIP2A
180
kDa
β-actin
(for DIP2A)
55
43
WT KO WT KO WT KO WT KO
kDa
NR2A 180
NR2B 180
PSD95
95
72
kDa
WT KO WT KO WT KO WT KO
NR1
130
95
GluR1
95
72
GluR2
130
95
72
β-actin
55
43

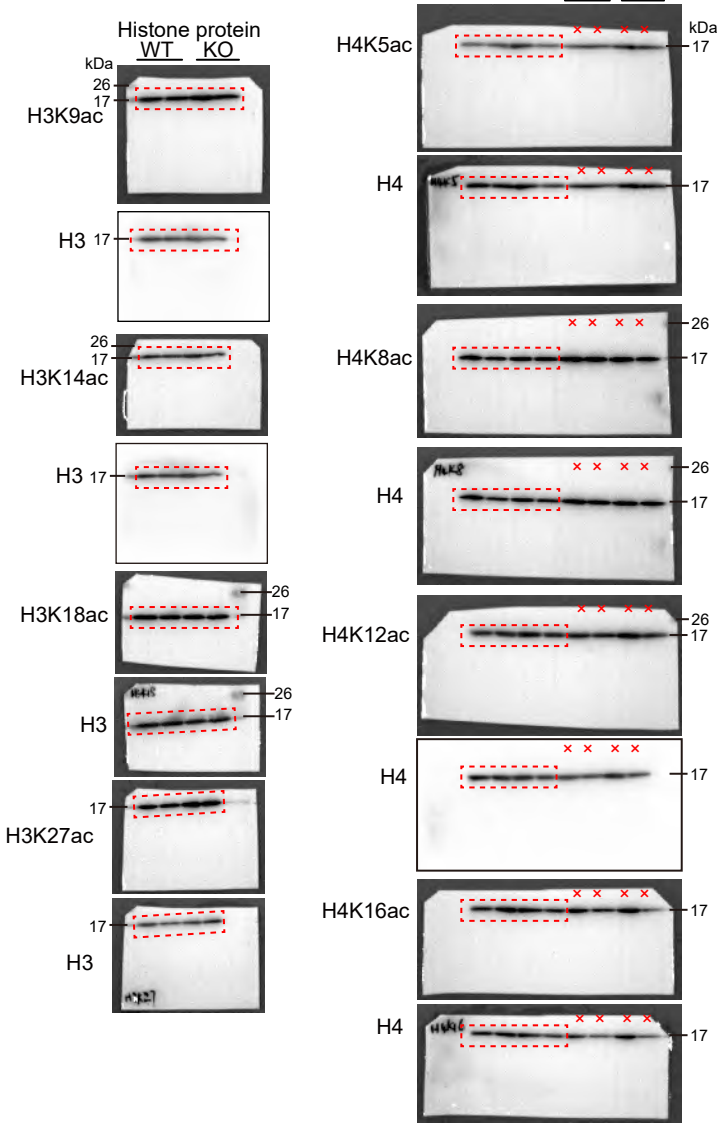
S5A Fig



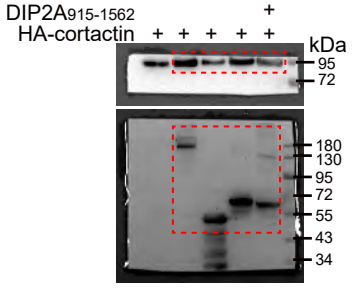
S5B Fig



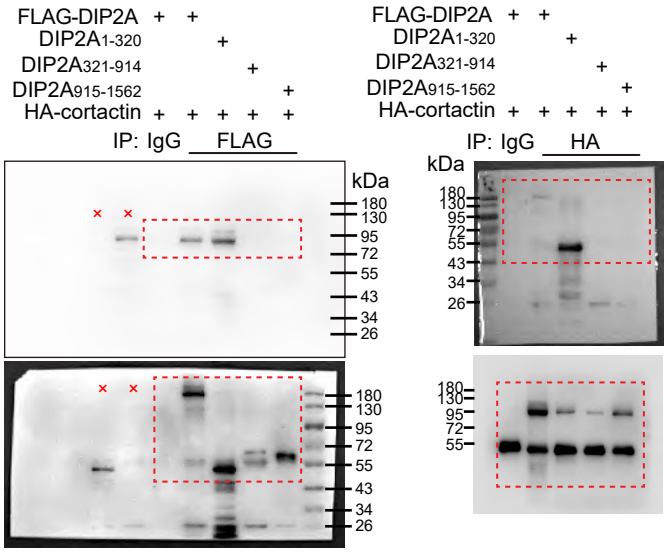
S5C Fig



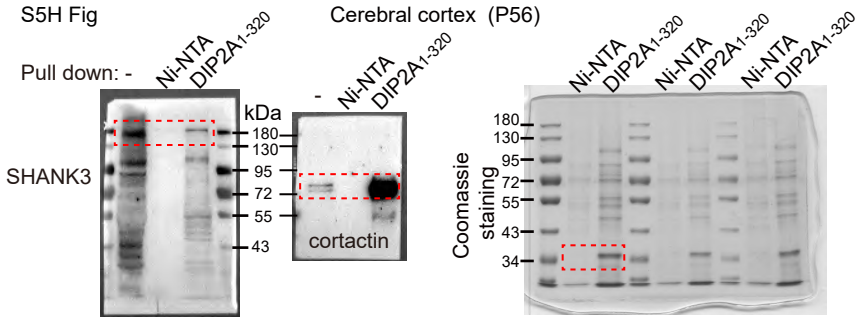
S5G Fig



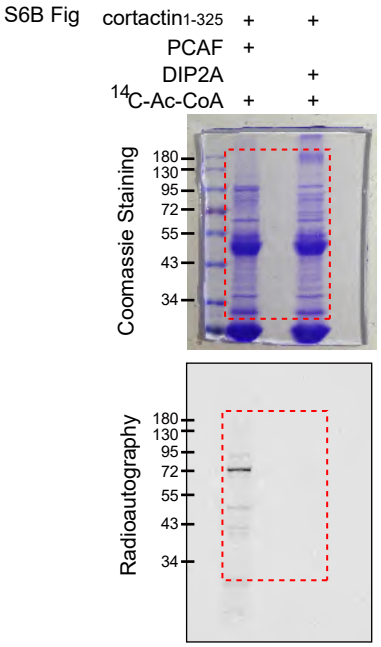
S5G Fig



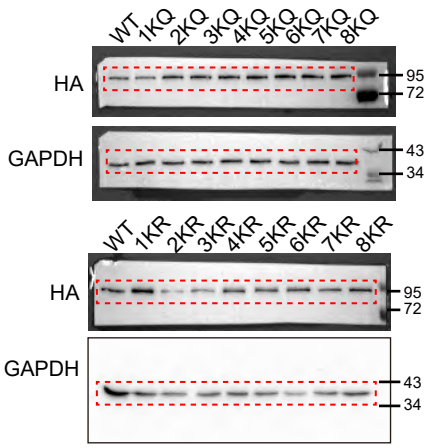
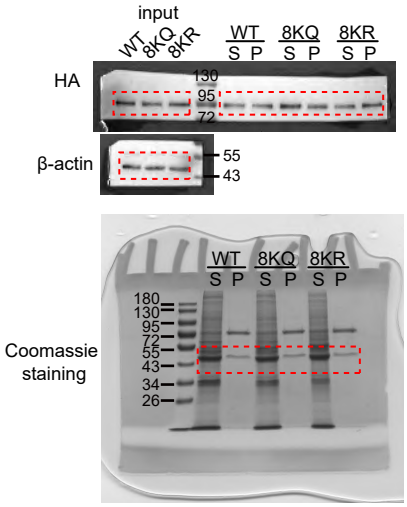
S5H Fig



S6B Fig



S6D Fig



S6E Fig