Figure 1

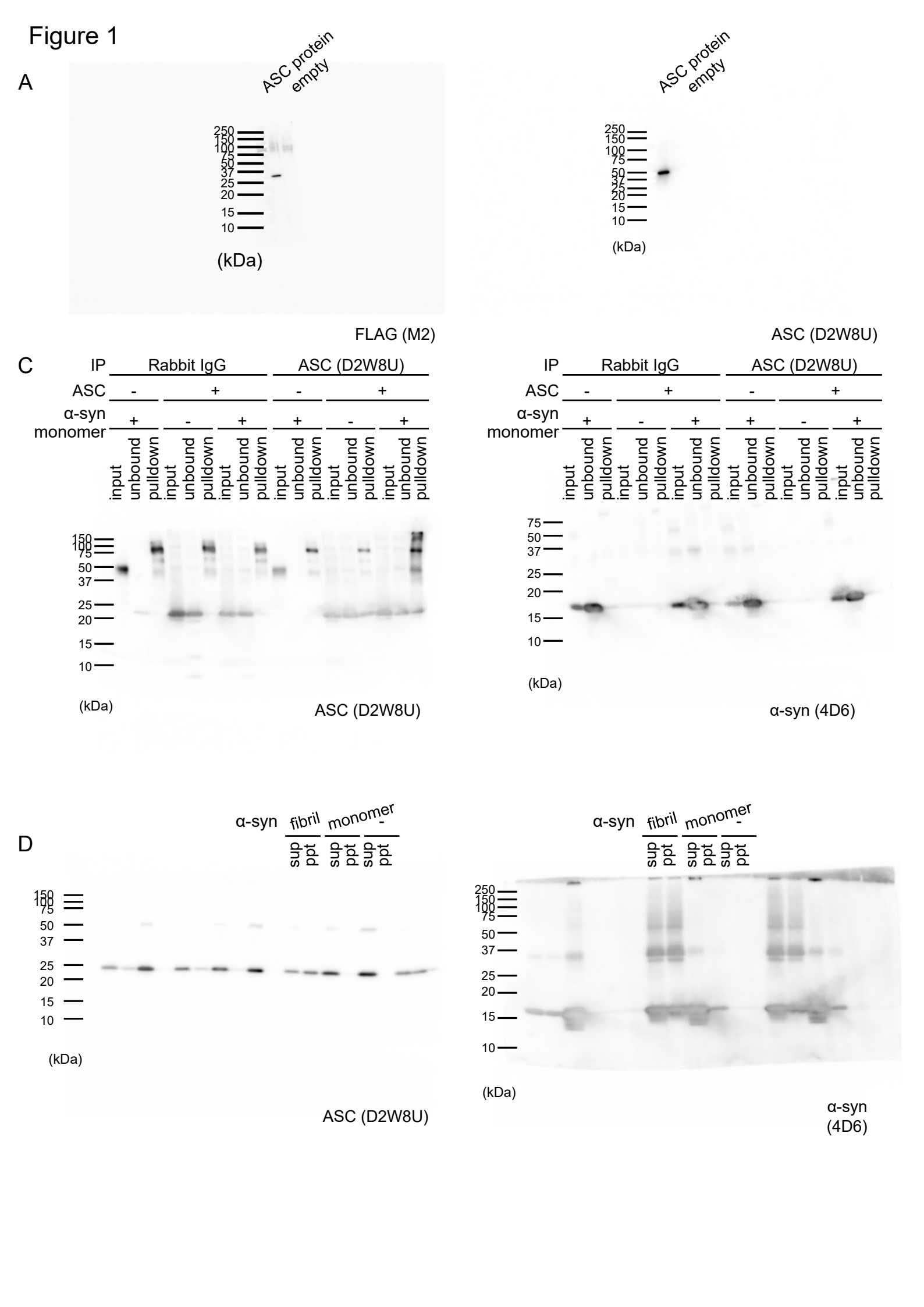
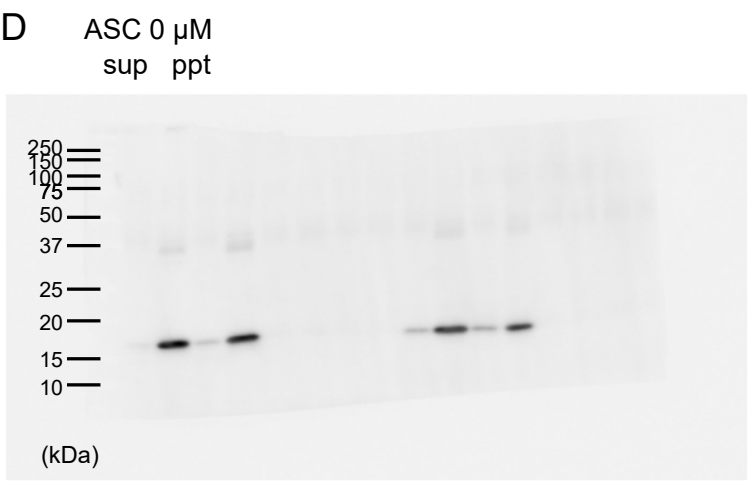
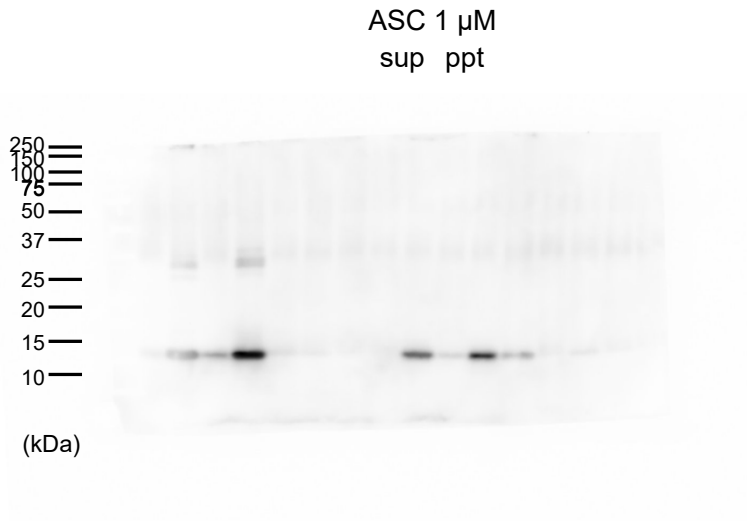

A
ASC protein
empty
250
150
100
75
50
37
25
20
15
10
(kDa)
ASC protein
empty
250
150
100
75
50
37
25
20
15
10
(kDa)
FLAG (M2)
ASC (D2W8U)
C
IP
Rabbit IgG
ASC (D2W8U)
ASC
-
+
-
+
α-syn
monomer
+
-
+
+
-
+
input
unbound
pulldown
150
100
75
50
37
25
20
15
10
(kDa)
ASC (D2W8U)
IP
Rabbit IgG
ASC (D2W8U)
ASC
-
+
-
+
α-syn
monomer
+
-
+
+
-
+
input
unbound
pulldown
75
50
37
25
20
15
10
(kDa)
α-syn (4D6)
D
α-syn
fibril
monomer
-
sup
ppt
150
100
75
50
37
25
20
15
10
(kDa)
ASC (D2W8U)
α-syn
fibril
monomer
-
sup
ppt
250
150
100
75
50
37
25
20
15
10
(kDa)
α-syn
(4D6)

Figure 2

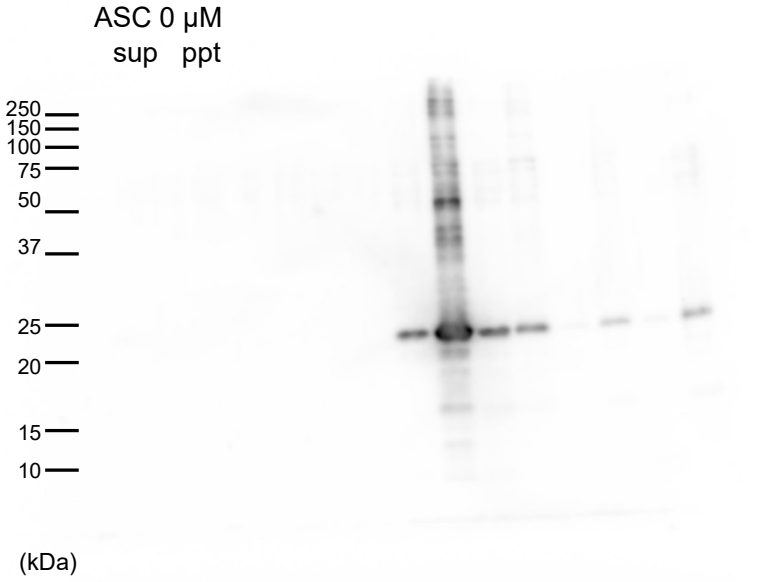
D

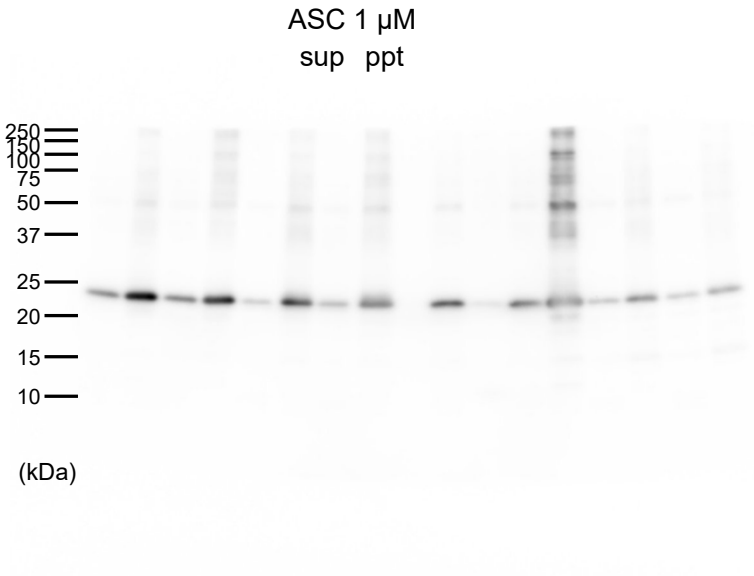




α-syn (4D6)

α-syn (4D6)

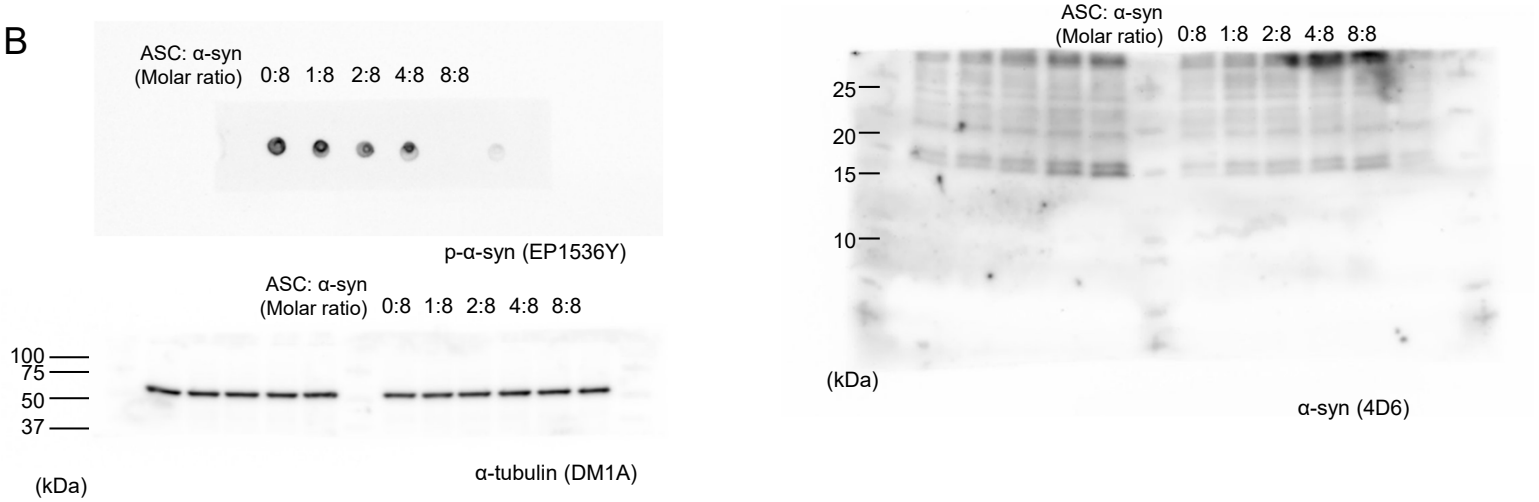




ASC (D2W8U)

ASC (D2W8U)

Figure 3


B
ASC: α-syn
(Molar ratio) 0:8 1:8 2:8 4:8 8:8
p-α-syn (EP1536Y)
ASC: α-syn
(Molar ratio) 0:8 1:8 2:8 4:8 8:8
100
75
50
37
(kDa)
α-tubulin (DM1A)
ASC: α-syn
(Molar ratio) 0:8 1:8 2:8 4:8 8:8
25
20
15
10
(kDa)
α-syn (4D6)

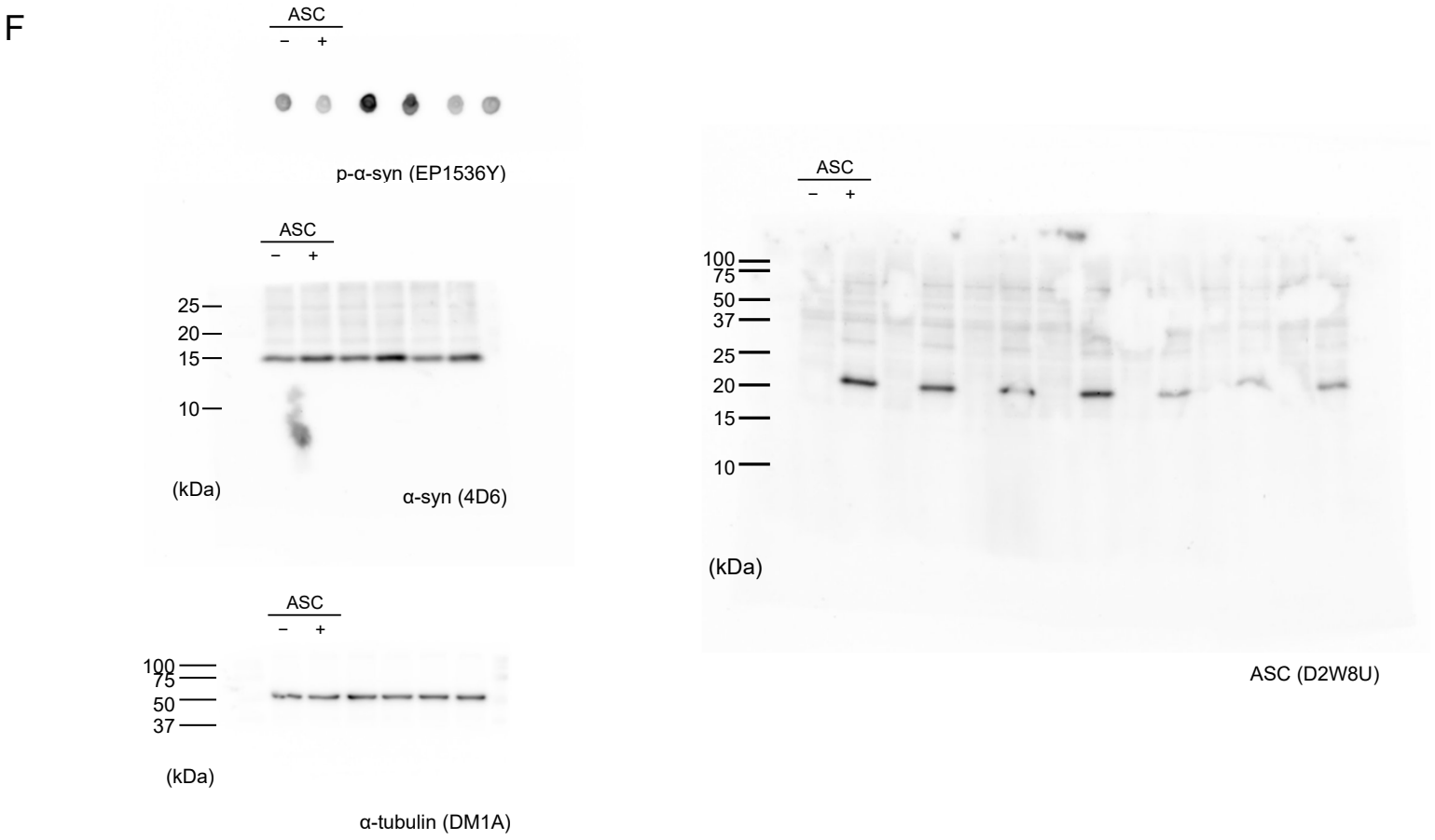

F
ASC
– +
p-α-syn (EP1536Y)
ASC
– +
25
20
15
10
(kDa)
α-syn (4D6)
ASC
– +
100
75
50
37
(kDa)
α-tubulin (DM1A)
ASC
– +
100
75
50
37
25
20
15
10
(kDa)
ASC (D2W8U)

Figure 4

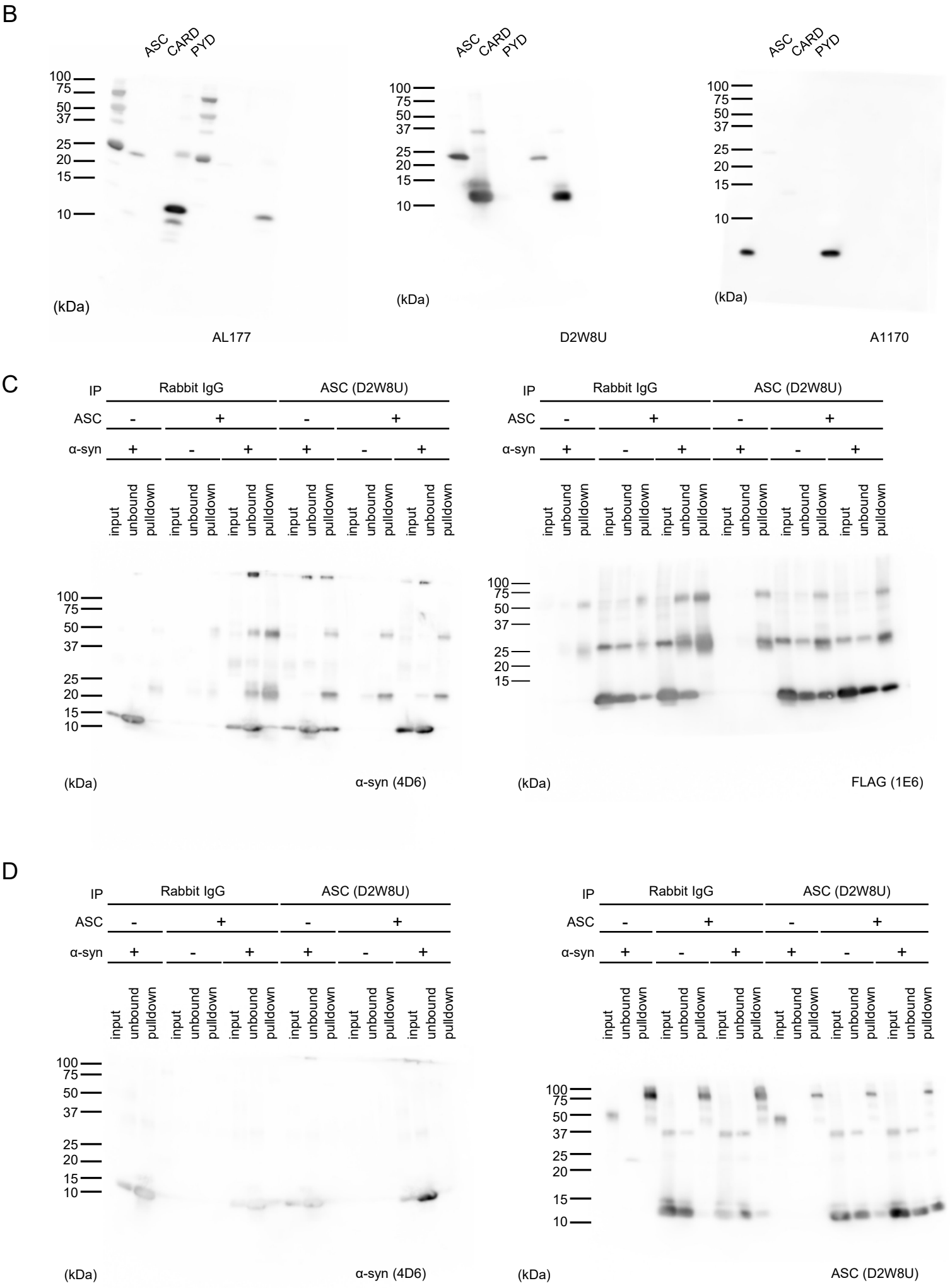
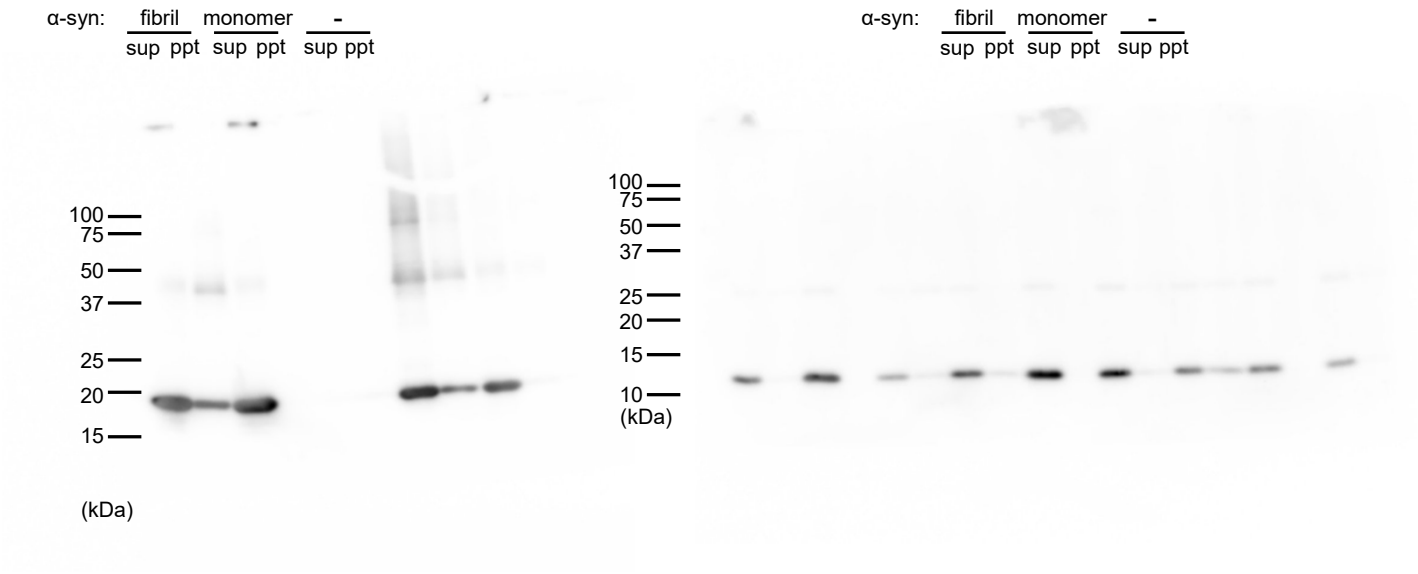

B
ASC
CARD
PYD
100
75
50
37
25
20
15
10
(kDa)
AL177
D2W8U
A1170
C
IP
Rabbit IgG
ASC (D2W8U)
ASC
α-syn
input
unbound
pulldown
α-syn (4D6)
FLAG (1E6)
D
ASC (D2W8U)

Figure 4 (continued)

E



G

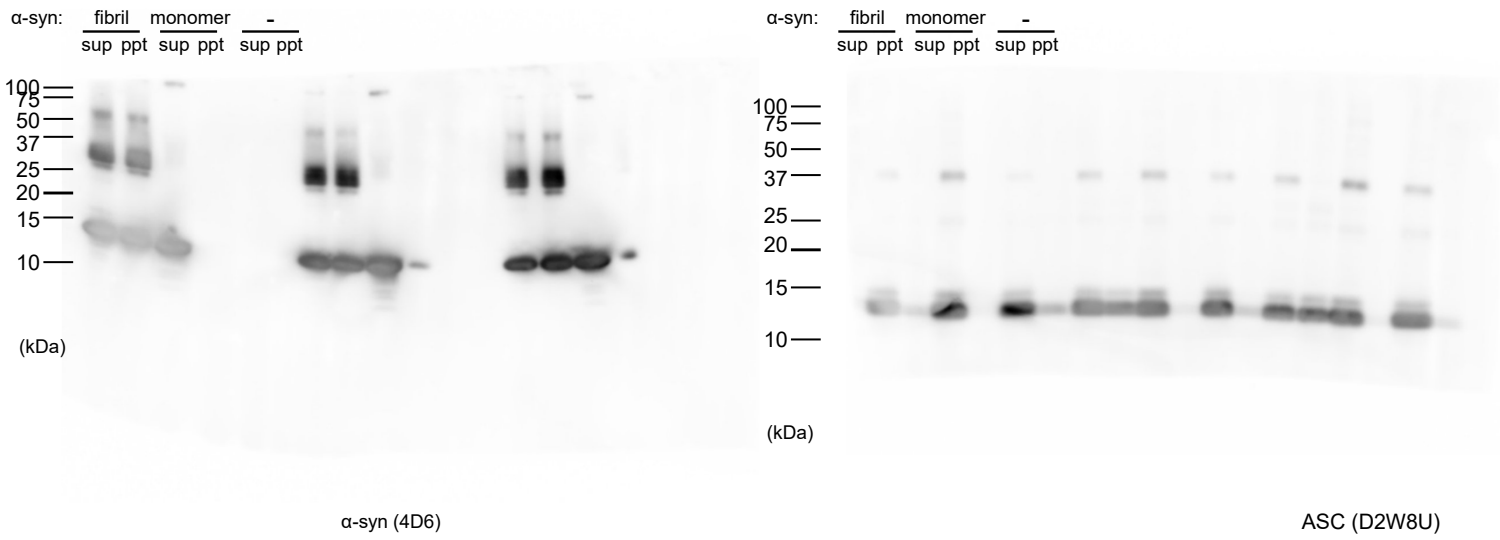
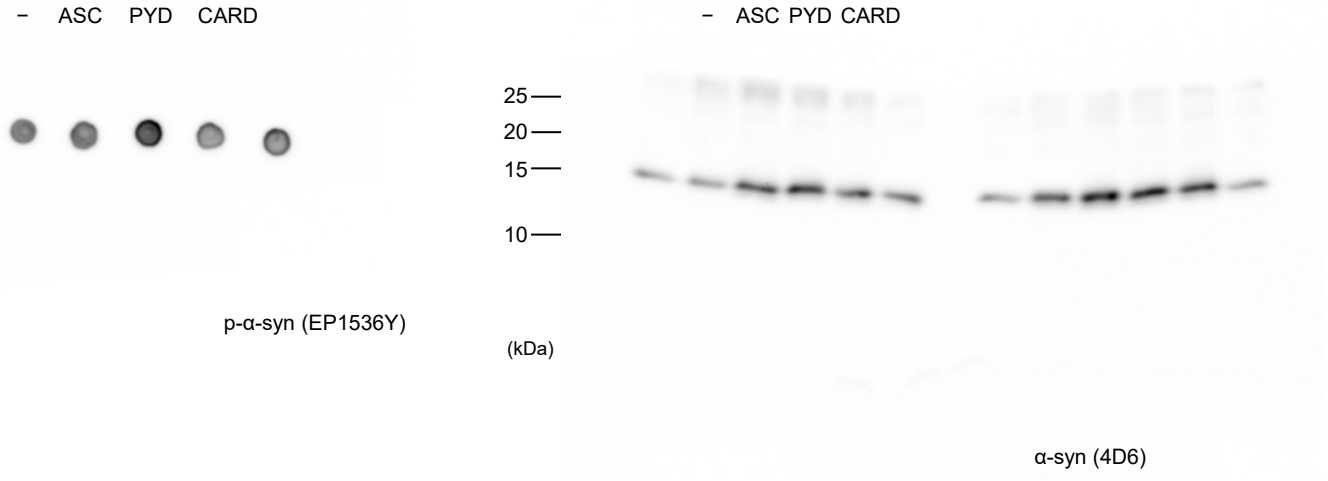
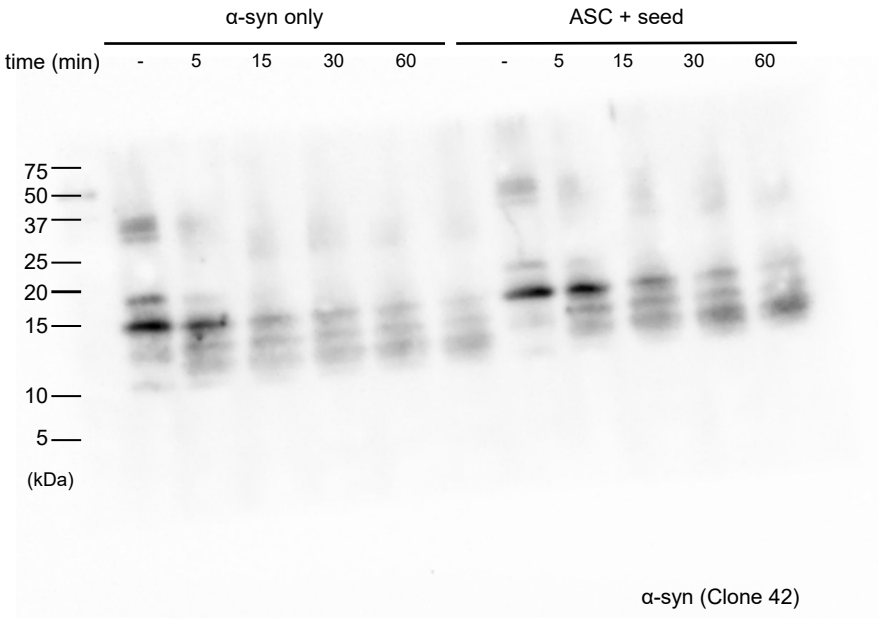


Figure 6

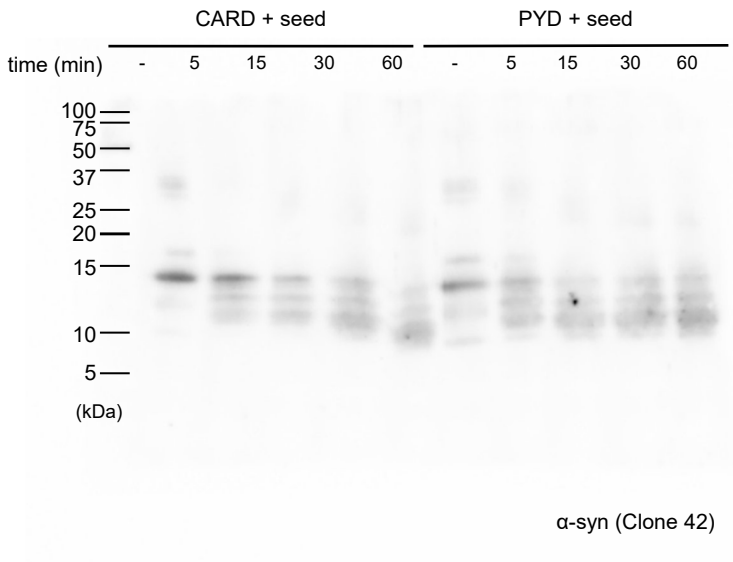
C


- ASC PYD CARD
- ASC PYD CARD
25
20
15
10
(kDa)
p-α-syn (EP1536Y)
α-syn (4D6)

E


α-syn only
ASC + seed
time (min)
- 5 15 30 60
- 5 15 30 60
75
50
37
25
20
15
10
5
(kDa)
α-syn (Clone 42)

F


CARD + seed
PYD + seed
time (min)
- 5 15 30 60
- 5 15 30 60
100
75
50
37
25
20
15
10
5
(kDa)
α-syn (Clone 42)