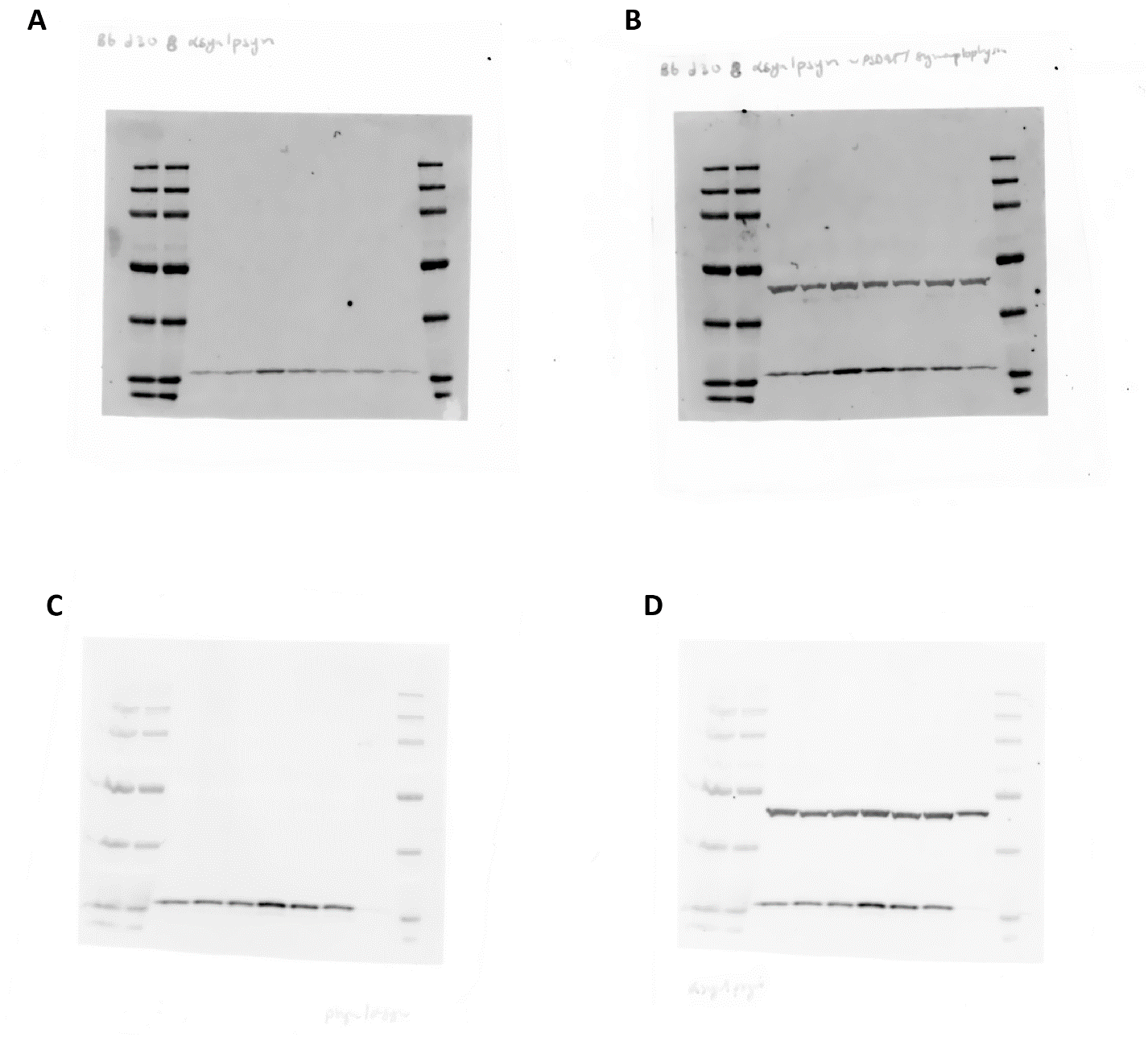
****

**Supplementary Blots Figure 1. Original Western Blots in Figure 2A**

**(A)** α-synuclein (14kDa) day 30

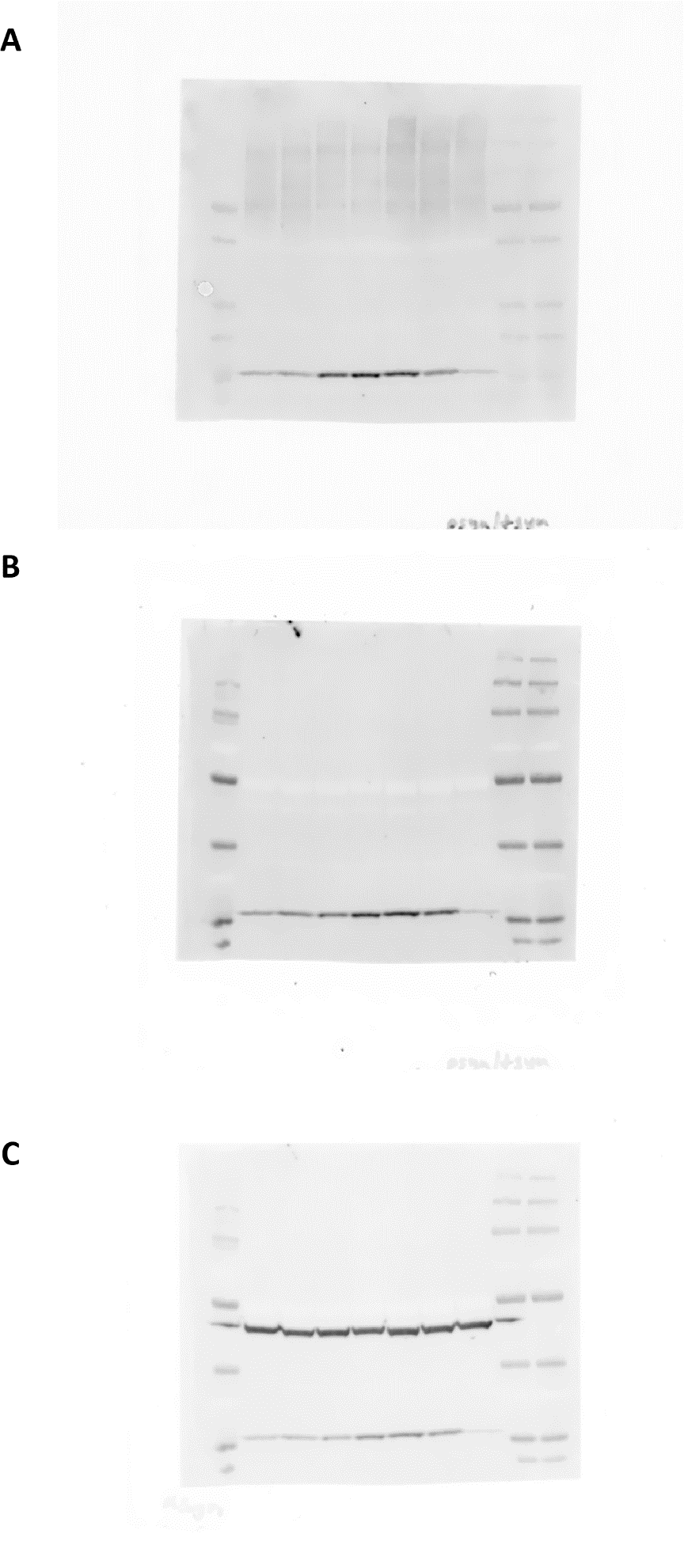
**(B)** α-synuclein (14kDa) and ß-actin (42kDa) day 30

**(C)** α-synuclein (14kDa) day 70

**(D)** α-synuclein (14kDa) and ß-actin (42kDa) day 70

Order of loading of Western blot: Ladder, Ladder, WT 201 (WT-1), WT 232 (WT-2), 3xSNCA 317 (3xSNCA-1), 3xSNCA 336 (3xSNCA-2), 3xSNCA 392, GC 373, GC 391, Ladder.

3xSNCA 392, GC 373 and GC 391 were excluded from this study.

****

**Supplementary Blots Figure 2. Original Western Blots in Figure 3A**

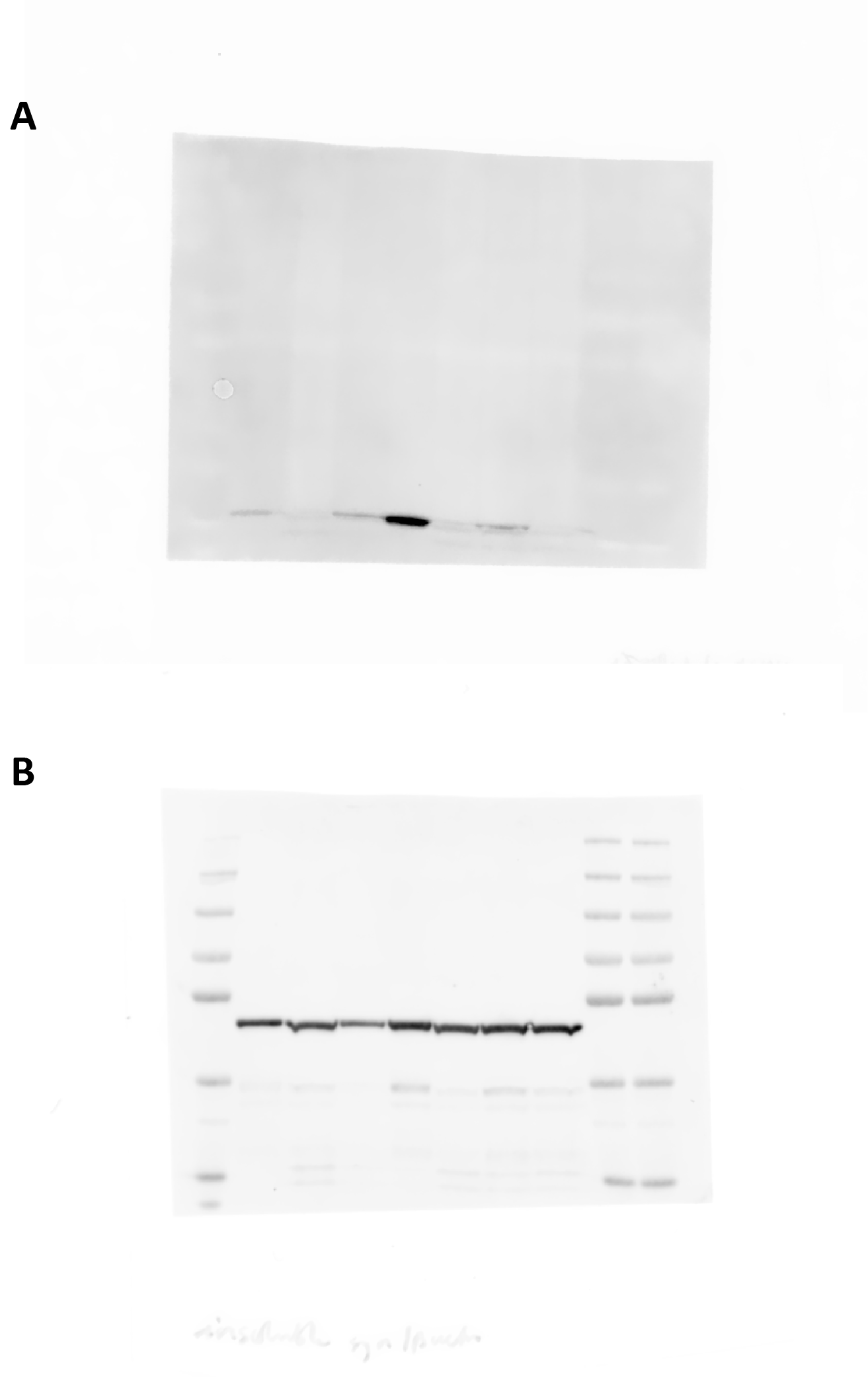
**(A)** pS129α-synuclein (14kDa) day 50

**(B)** α-synuclein (14kDa) day 50

**(C)** α-synuclein (14kDa) and ß-actin (42kDa) day 50

Order of loading of Western blot: Ladder, WT 201 (WT-1), WT 232 (WT-2), 3xSNCA 317 (3xSNCA-1), 3xSNCA 336 (3xSNCA-2), 3xSNCA 392, GC 373, GC 391, Ladder, Ladder.

3xSNCA 392, GC 373 and GC 391 were excluded from this study.

****

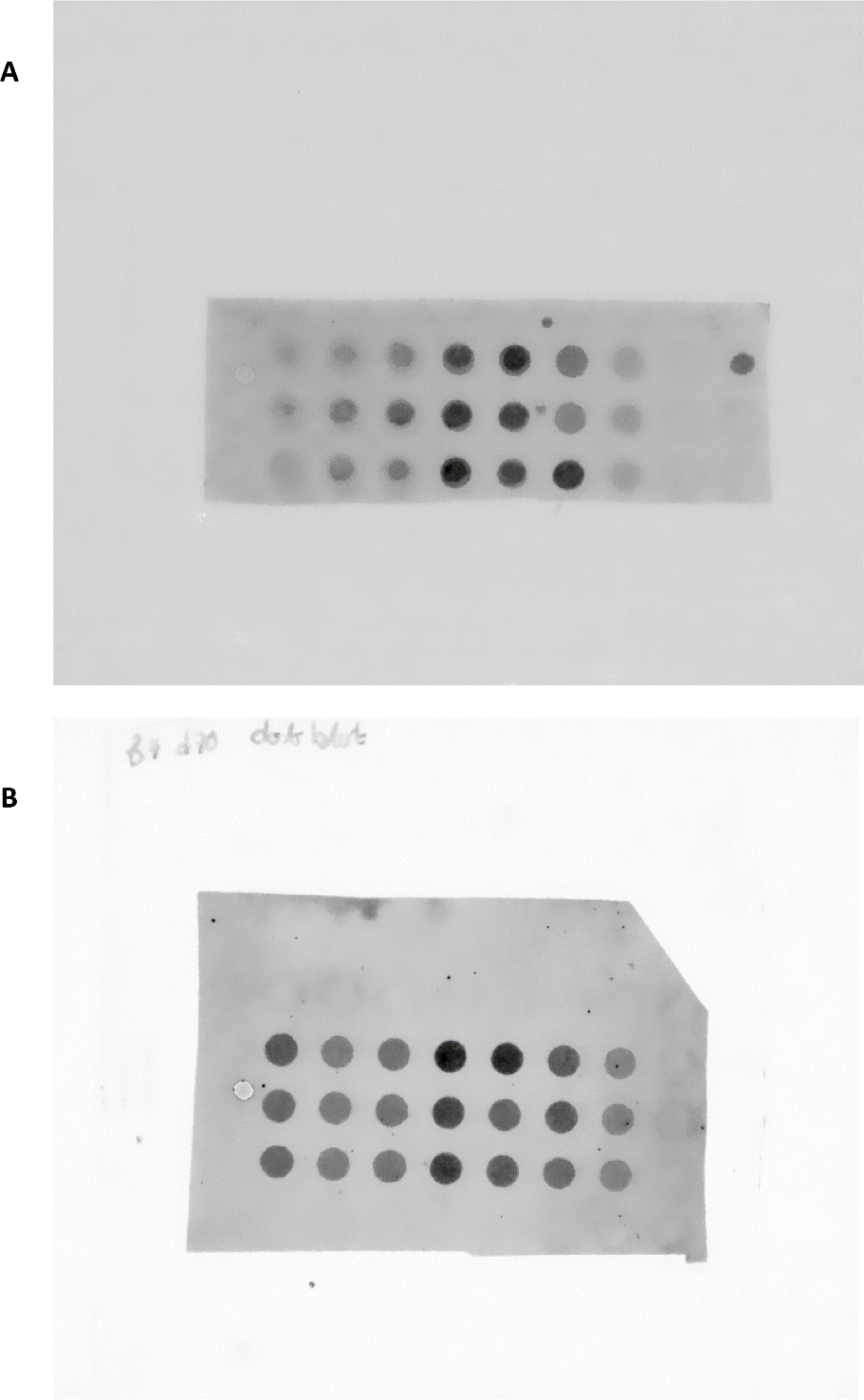
**Supplementary Blots Figure 3. Original Western Blots in Figure 3E**

**(A)** α-synuclein (14kDa) day 50

**(B)** ß-actin (42kDa) day 50

Order of loading of Western blot: Ladder, WT 201 (WT-1), WT 232 (WT-2), 3xSNCA 317 (3xSNCA-1), 3xSNCA 336 (3xSNCA-2), 3xSNCA 392, GC 373, GC 391, Ladder, Ladder.

3xSNCA 392, GC 373 and GC 391 were excluded from this study.

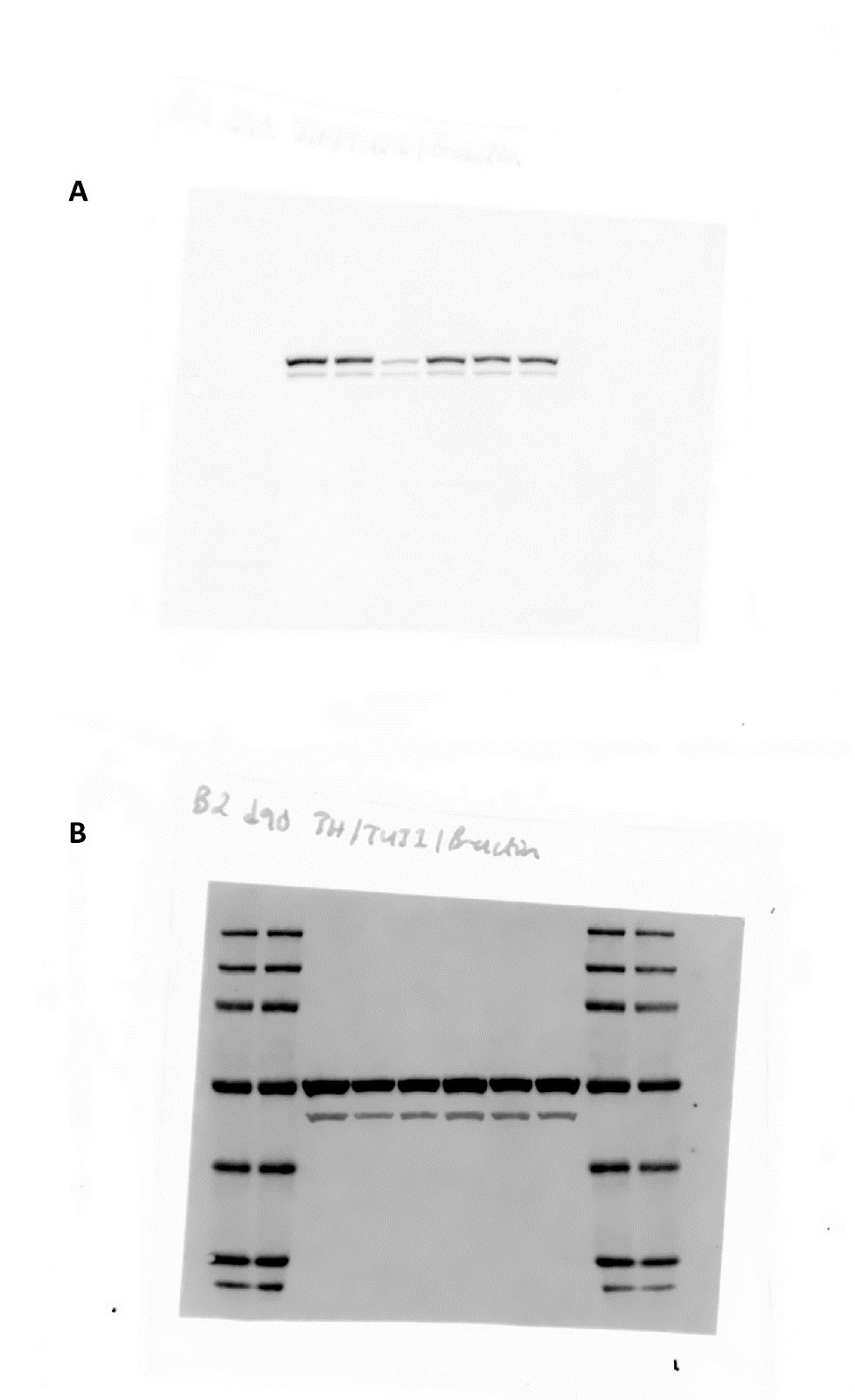


**Supplementary Blots Figure 4.**

**(A)** α-synuclein dot blot day 30 – used in Supplementary Figure 3C

**(B)** α-synuclein dot blot day 70 – used in Figure 2D

Order of loading of both dot blots: GC 391, WT 201 (WT-1), WT 232 (WT-2), 3xSNCA 317 (3xSNCA-1), 3xSNCA 336 (3xSNCA-2), 3xSNCA 392, GC 373. Each row represents independent replicates. 3xSNCA 392, GC 373 and GC 391 were excluded from this study.



**Supplementary Blots Figure 5. Original Western Blots in Figure 4C**

**(A)** TH (60kDa) day 90

**(B)** ßIII-Tubulin (50-55kDa) and ß-actin (42kDa) day 90

Order of loading of Western blot: Ladder, Ladder, WT 201 (WT-1), WT 232 (WT-2), 3xSNCA 317 (3xSNCA-1), 3xSNCA 336 (3xSNCA-2), 3xSNCA 392, GC 373, Ladder, Ladder.

3xSNCA 392, GC 373 and GC 391 were excluded from this study.