Investigating AKT activation and autophagy in immunoproteasome-deficient retinal cells

Md. Razual Karim[a,#] and Cody R. Fisher[a, b,#], Rebecca J. Kapphahn[a], Jorge R. Polanco[a], Deborah A. Ferrington[a, b *]

Raw Blots

Figure 1A

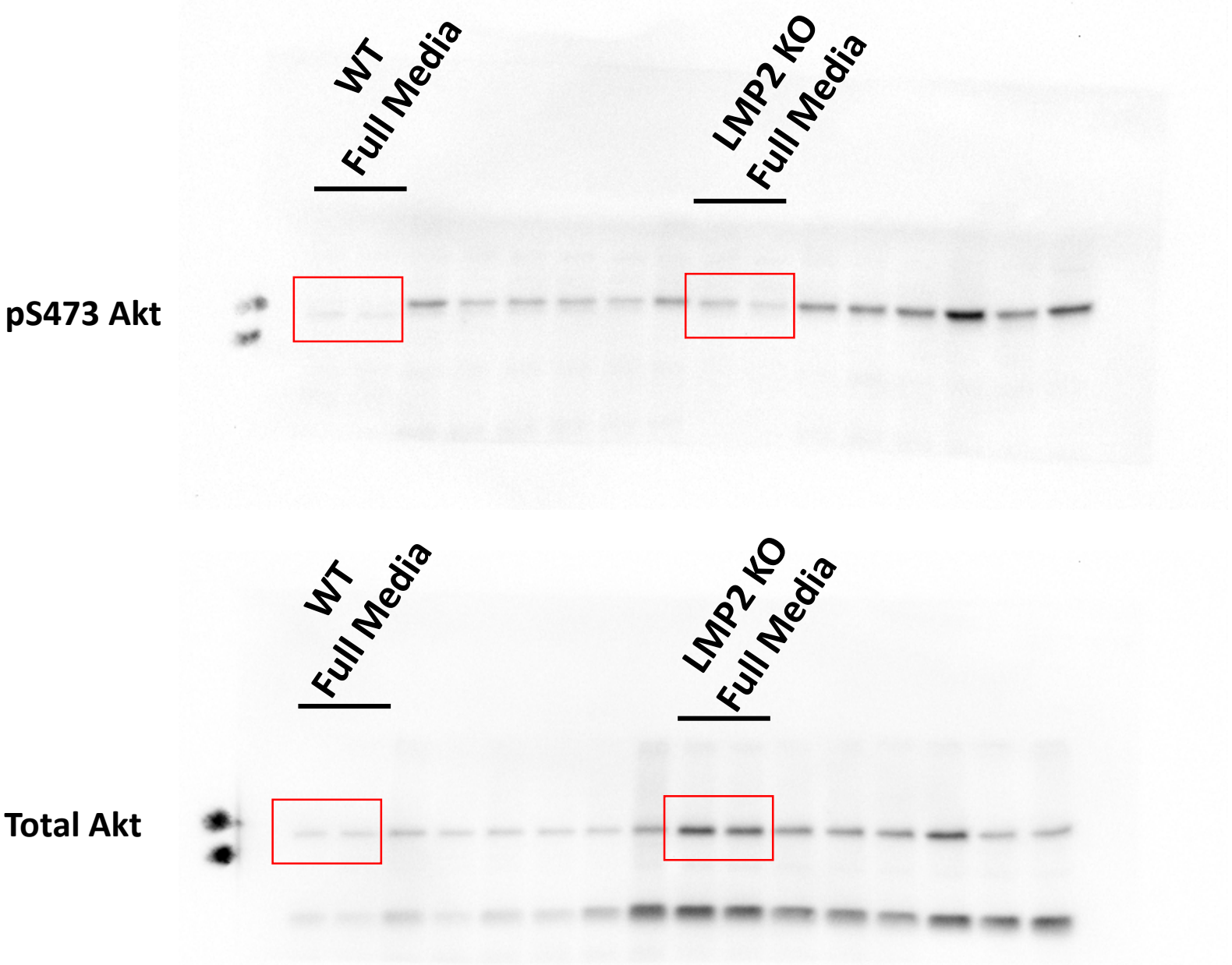

WT
Full Media
LMP2 KO
Full Media
pS473 Akt
WT
Full Media
LMP2 KO
Full Media
Total Akt

Figure 1A

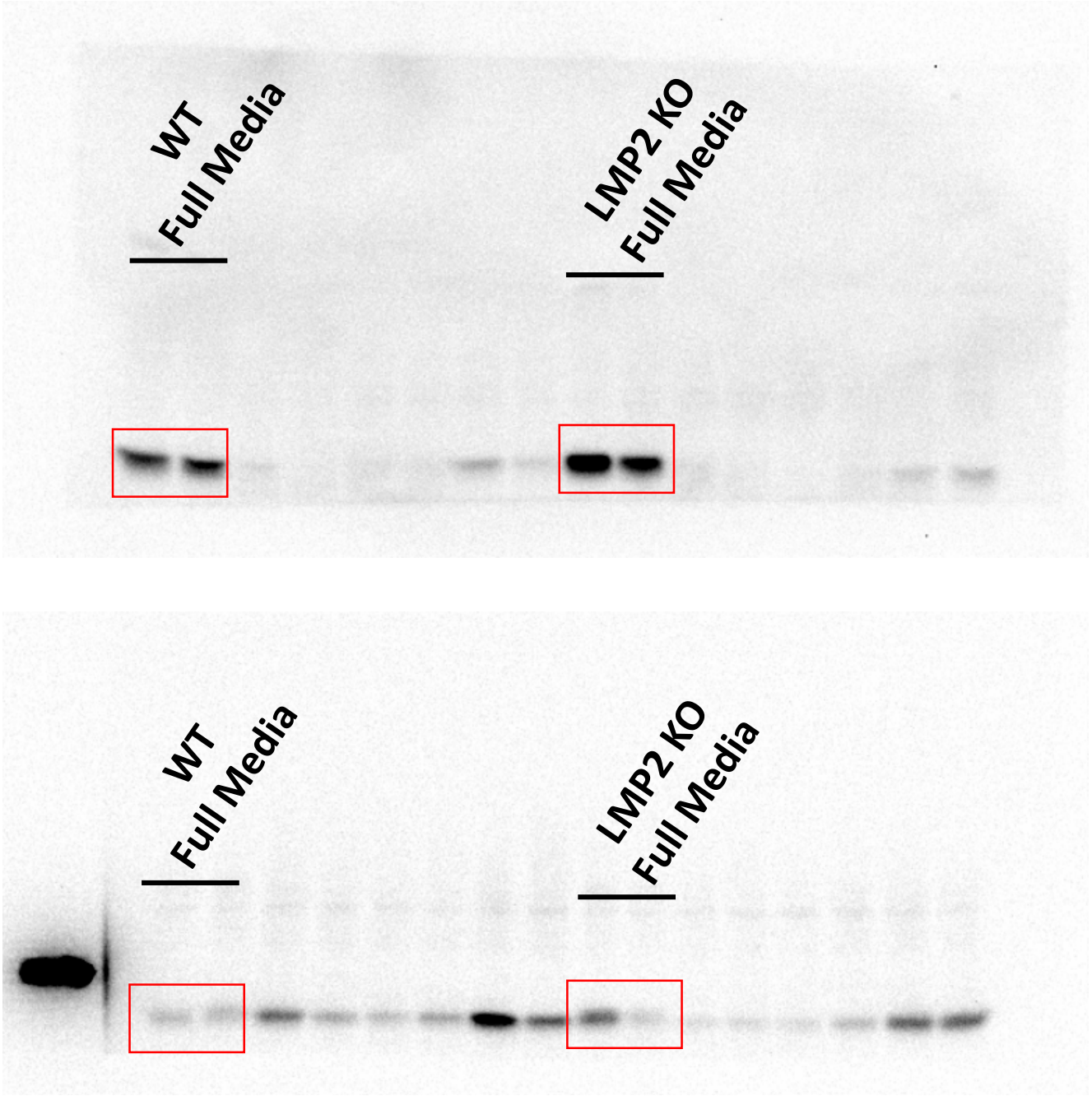

pS6
WT
Full Media
LMP2 KO
Full Media
Total S6
WT
Full Media
LMP2 KO
Full Media

Figure 1B

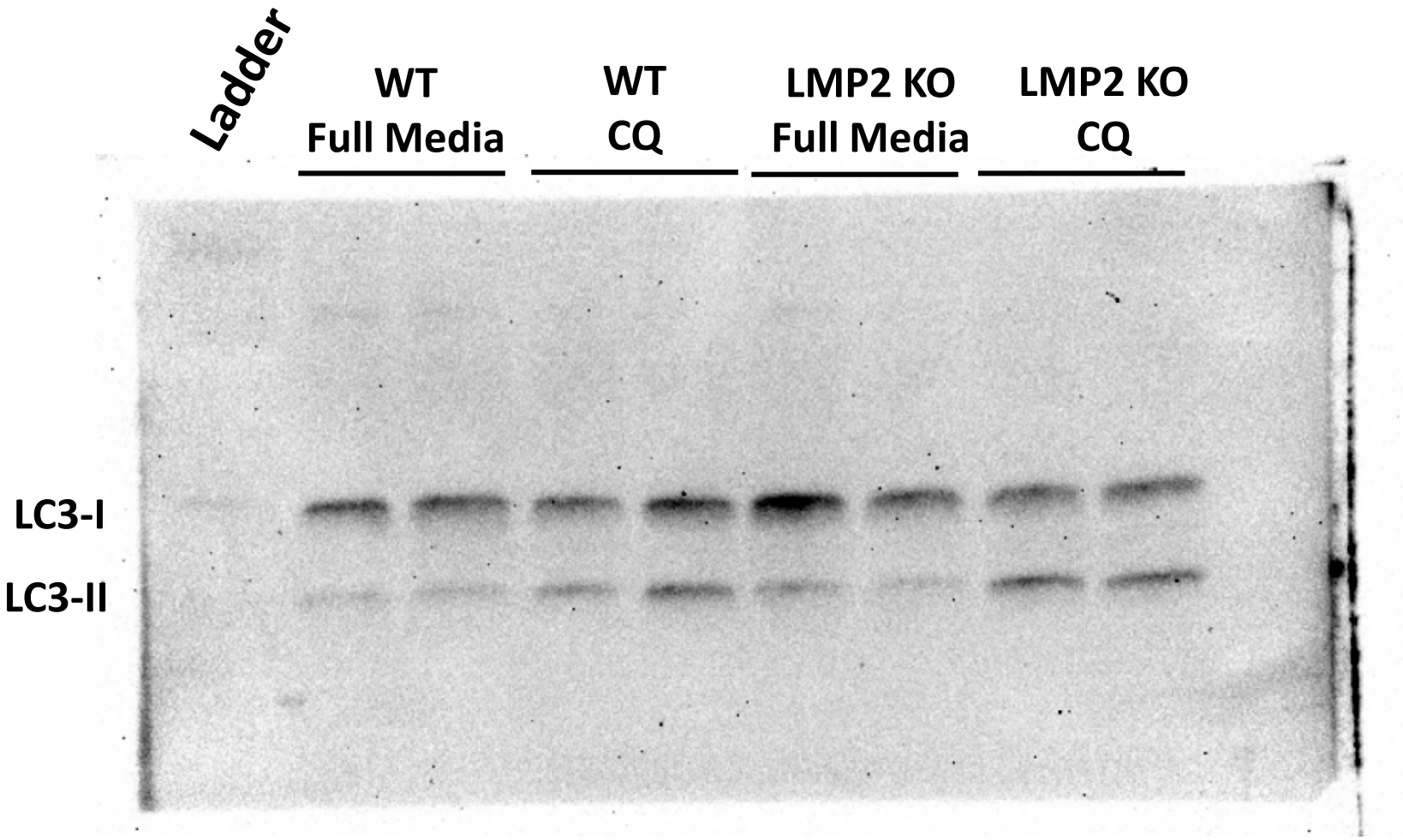

Ladder
WT
Full Media
WT
CQ
LMP2 KO
Full Media
LMP2 KO
CQ
LC3-I
LC3-II

Figure 2B

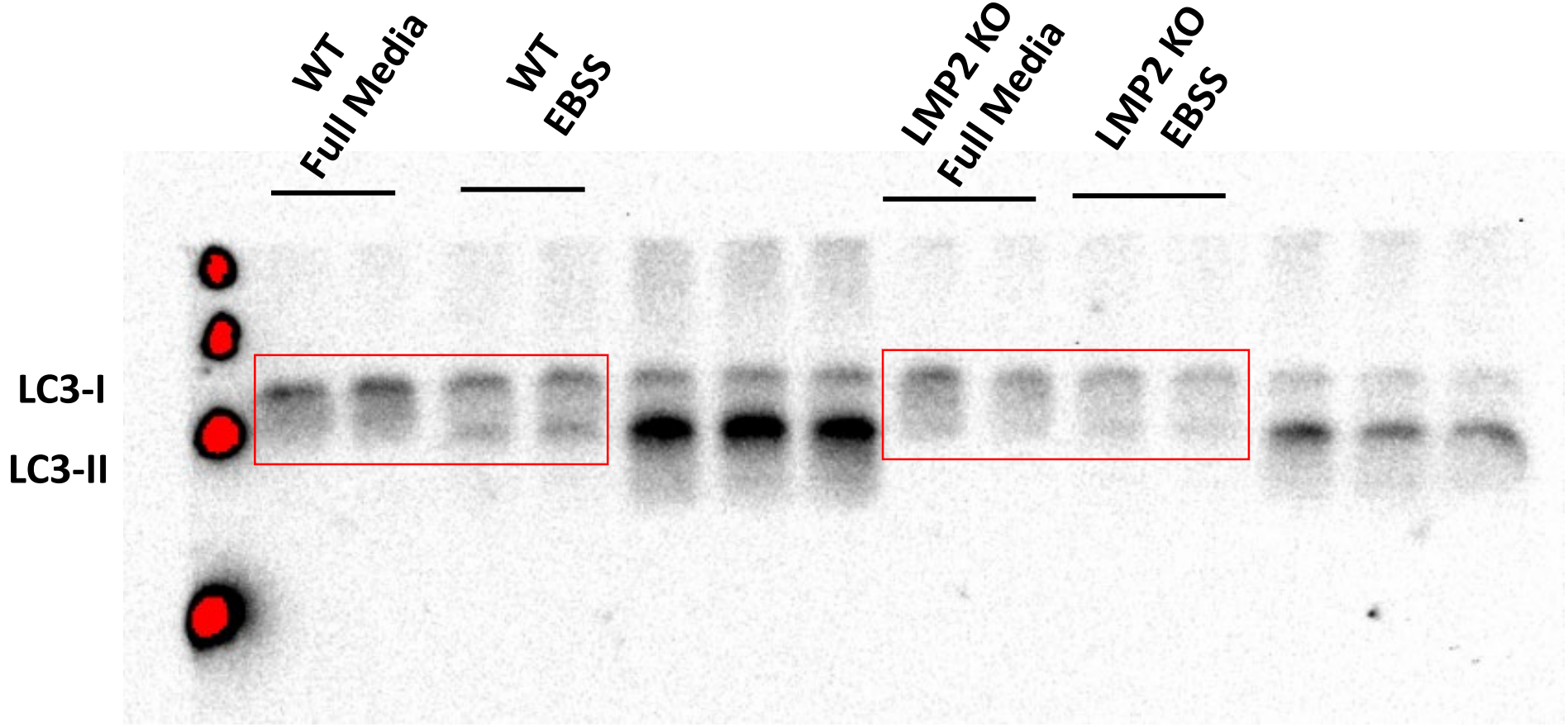

WT
Full Media
WT
EBSS
LMP2 KO
Full Media
LMP2 KO
EBSS
LC3-I
LC3-II

Figure 3A

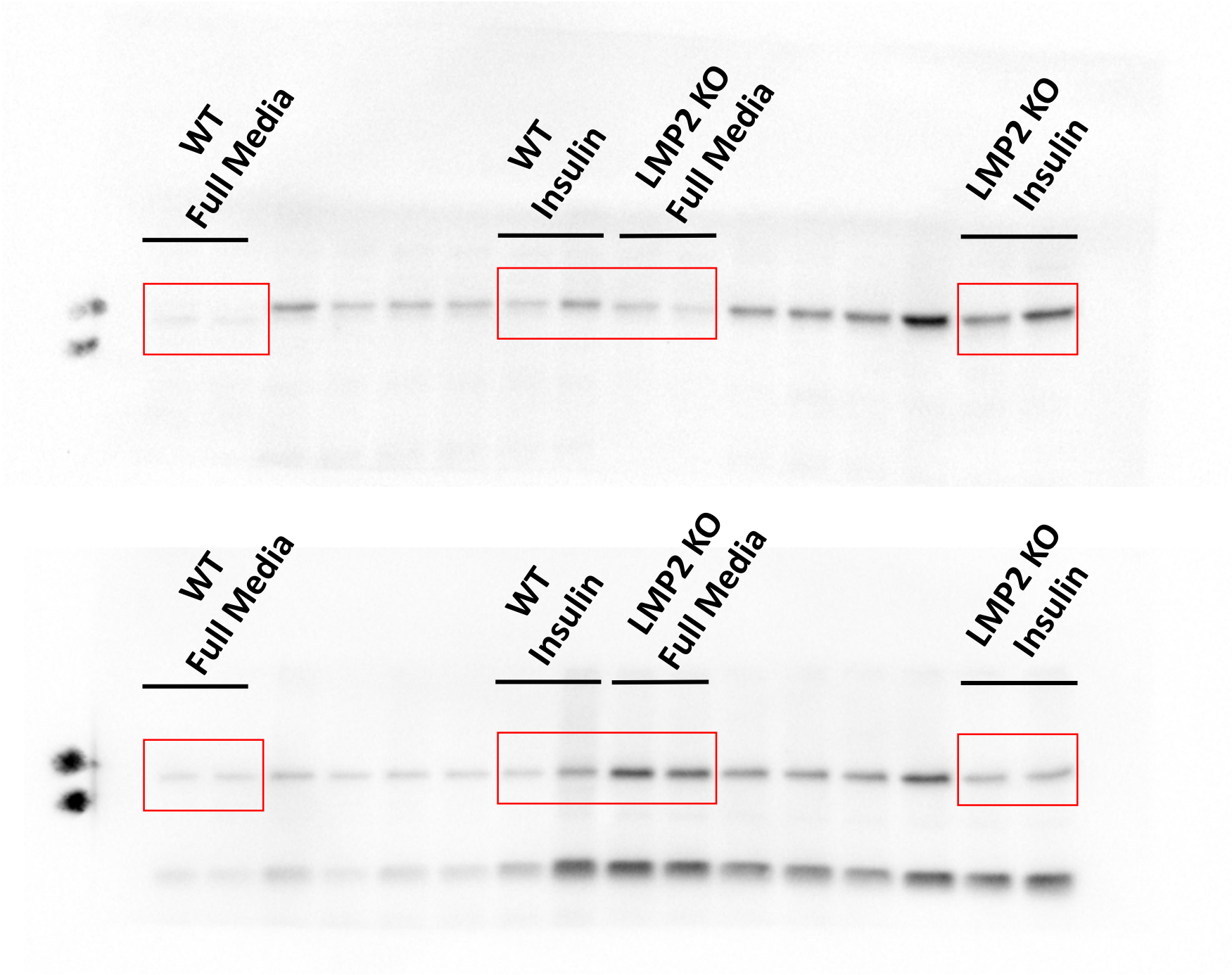

pS473 Akt
WT
Full Media
WT
Insulin
LMP2 KO
Full Media
LMP2 KO
Insulin
Total Akt
WT
Full Media
WT
Insulin
LMP2 KO
Full Media
LMP2 KO
Insulin

Figure 3B

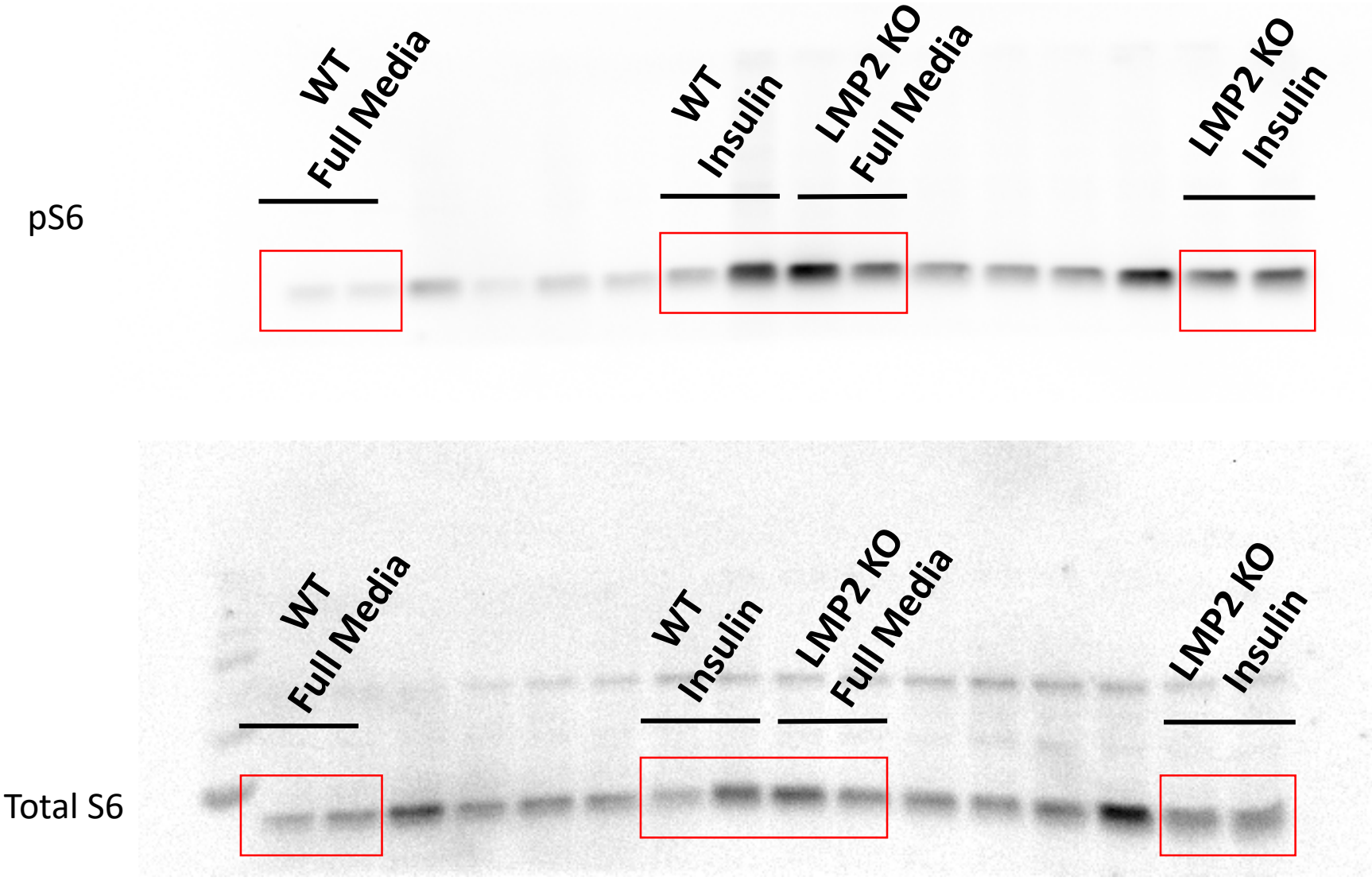

pS6
WT
Full Media
WT
Insulin
LMP2 KO
Full Media
LMP2 KO
Insulin
Total S6
WT
Full Media
WT
Insulin
LMP2 KO
Full Media
LMP2 KO
Insulin

Figure 3C

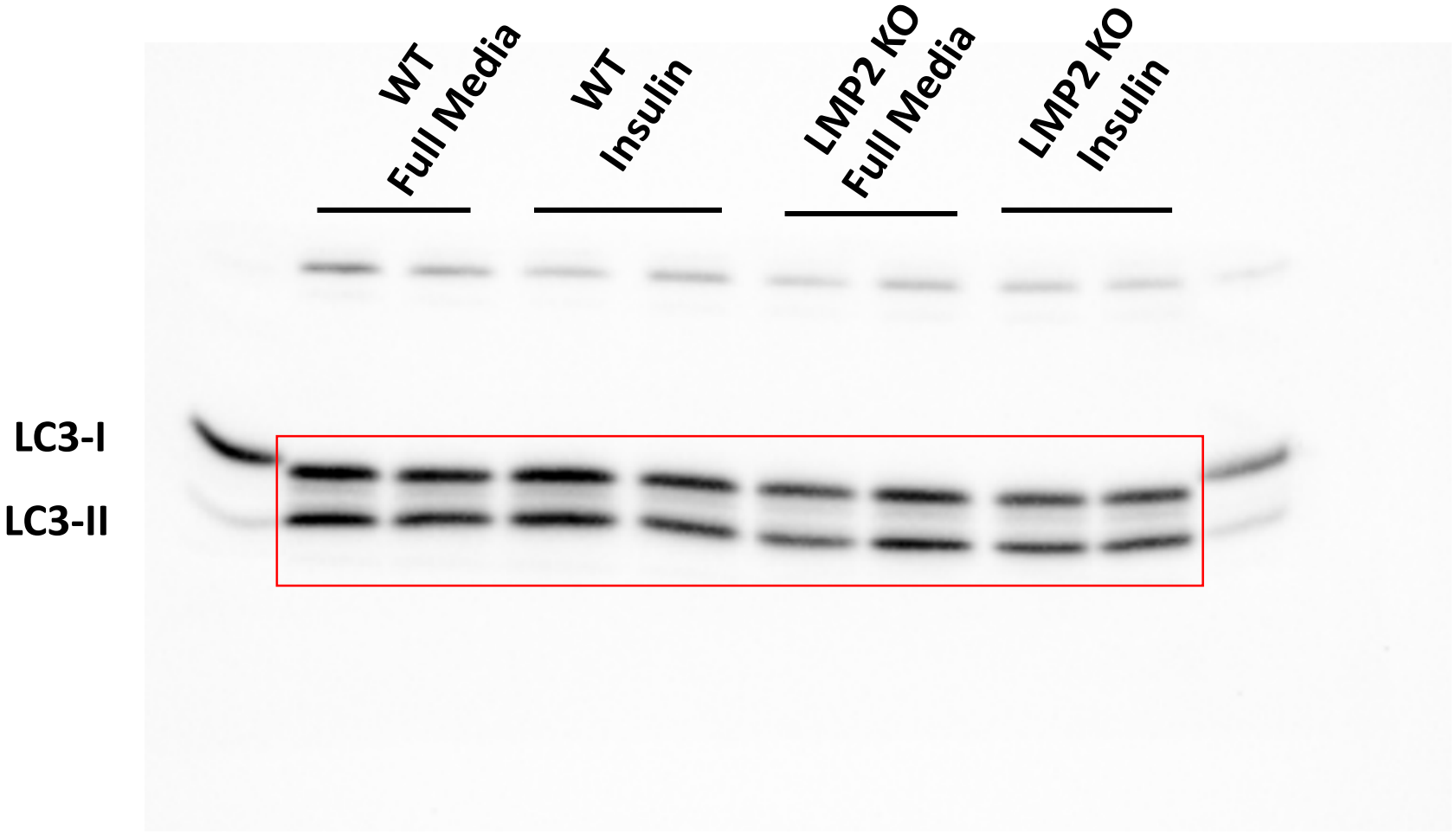

WT
Full Media
WT
Insulin
LMP2 KO
Full Media
LMP2 KO
Insulin
LC3-I
LC3-II

Figure 4A

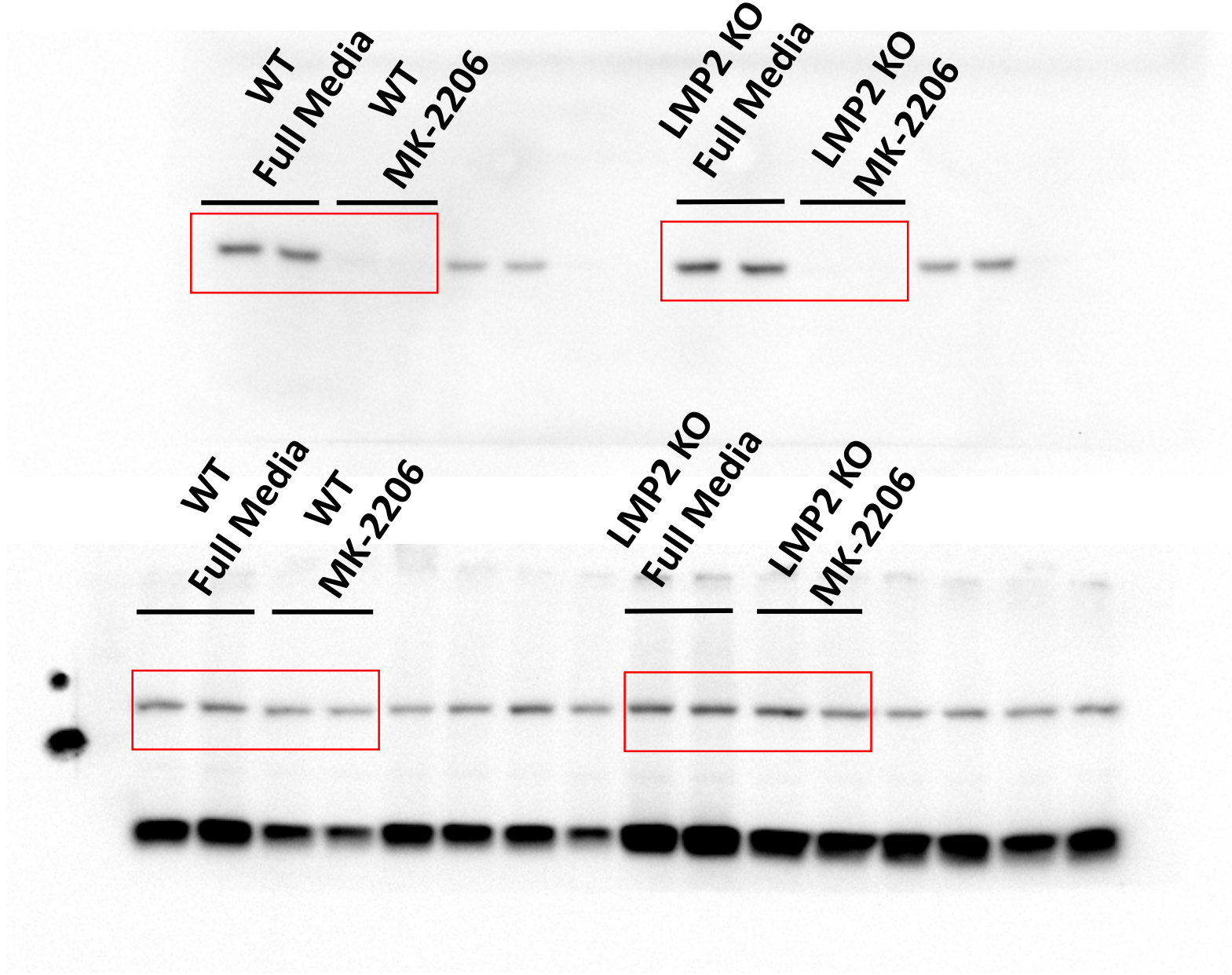
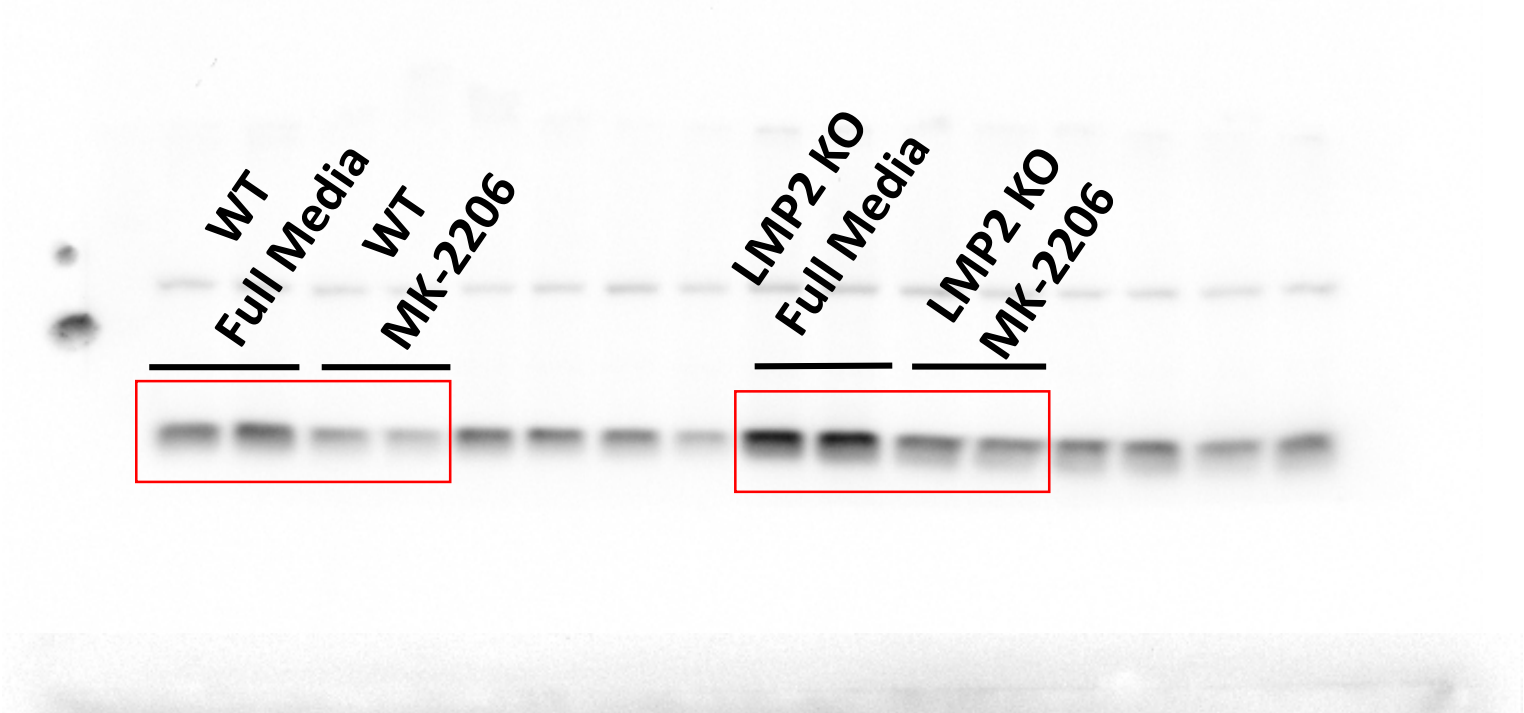

pS473 Akt
WT
Full Media
WT
MK-2206
LMP2 KO
Full Media
LMP2 KO
MK-2206
Total Akt
WT
Full Media
WT
MK-2206
LMP2 KO
Full Media
LMP2 KO
MK-2206

Figure 4B

pS6



Total S6

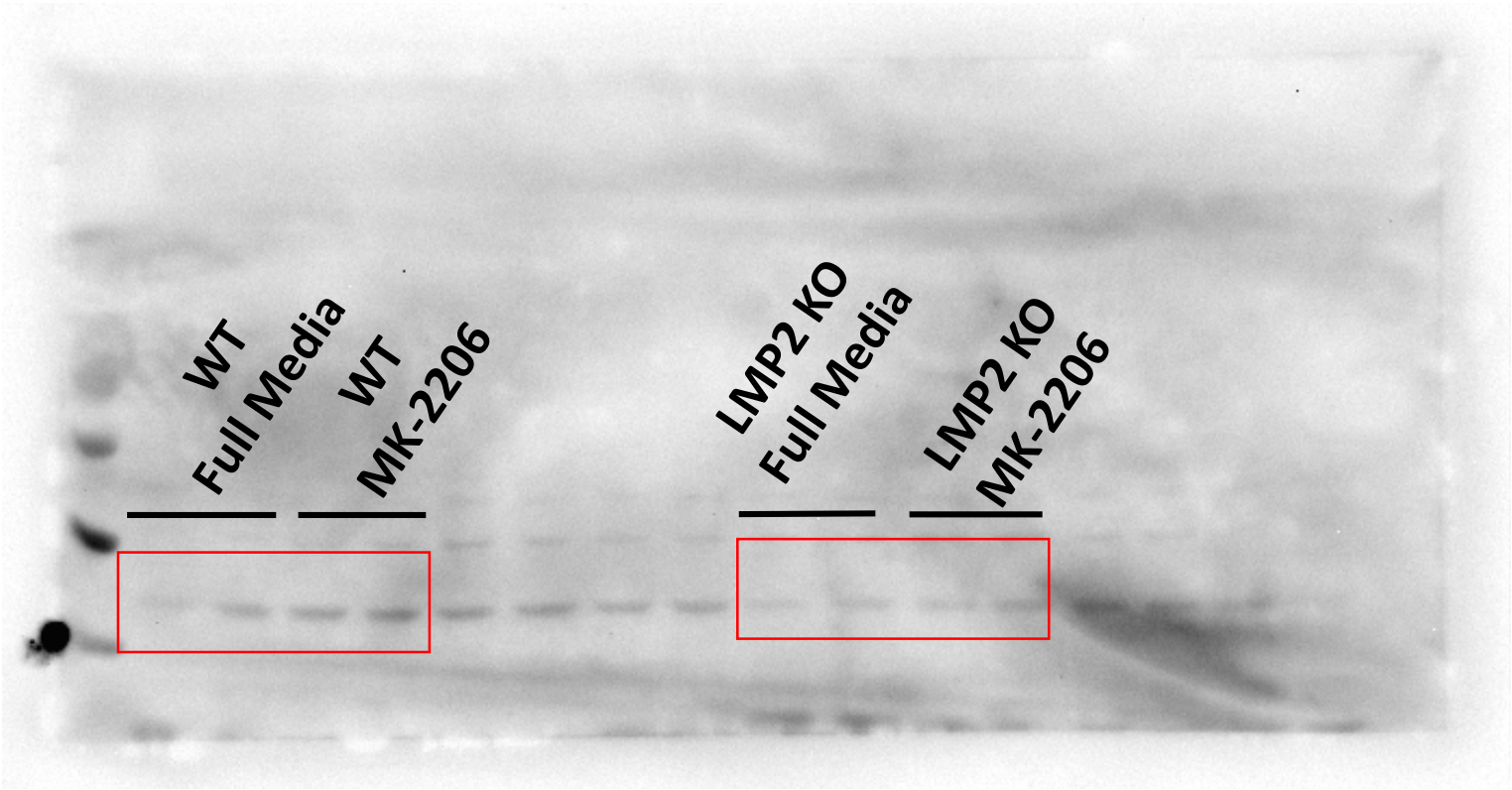


Figure 4C

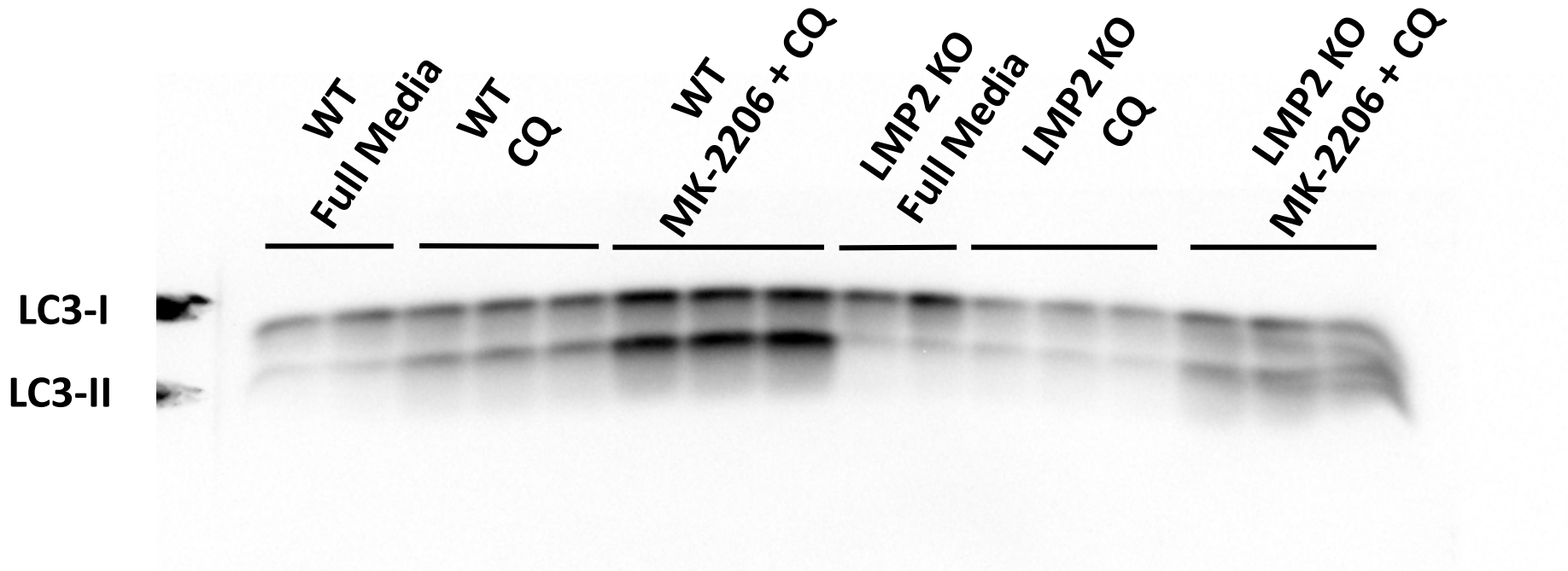

WT
Full Media
WT
CQ
WT
MK-2206 + CQ
LMP2 KO
Full Media
LMP2 KO
CQ
LMP2 KO
MK-2206 + CQ
LC3-I
LC3-II

Figure 4D

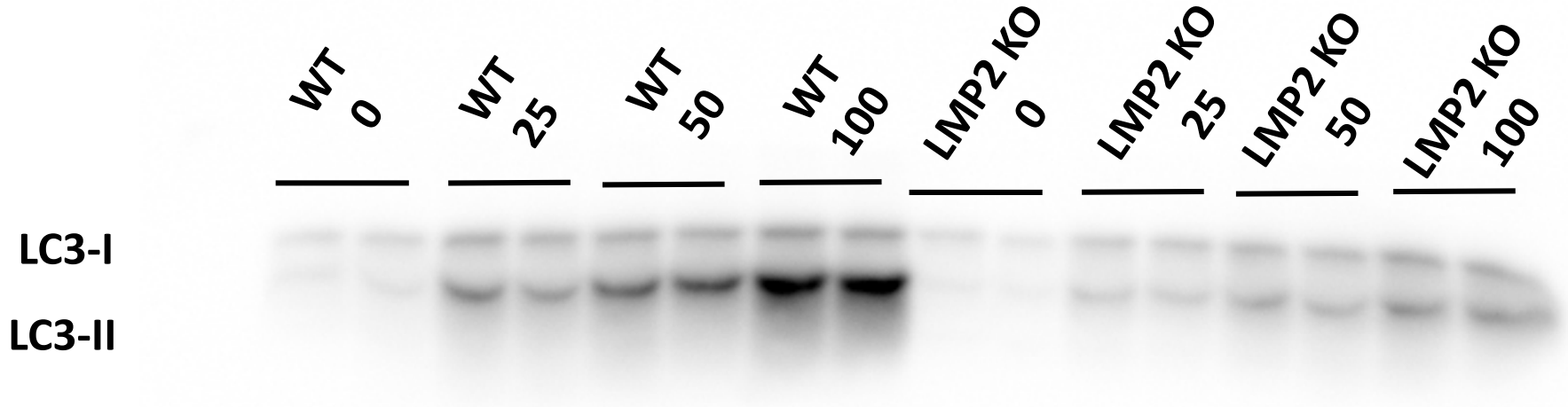
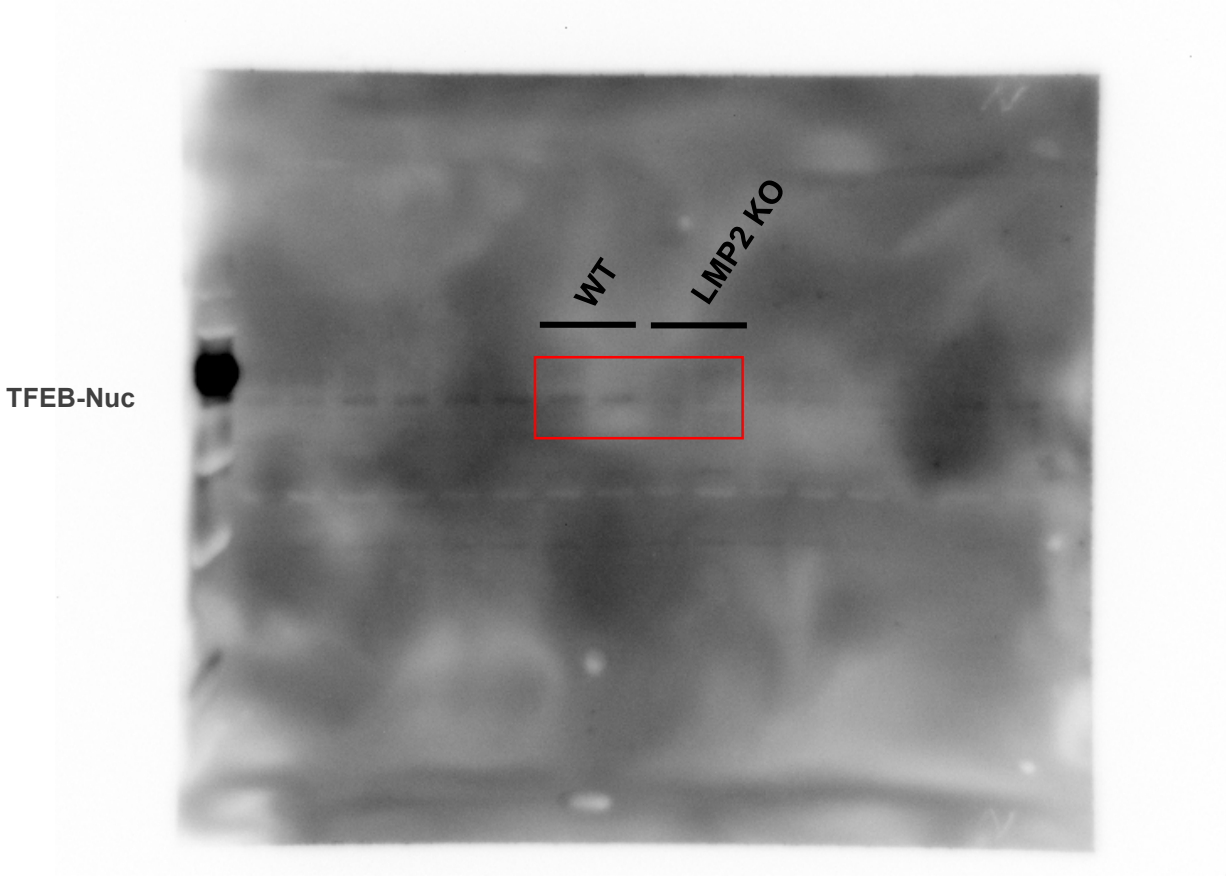

WT 0
WT 25
WT 50
WT 100
LMP2 KO 0
LMP2 KO 25
LMP2 KO 50
LMP2 KO 100
LC3-I
LC3-II

Fig. 4E: Ctrl



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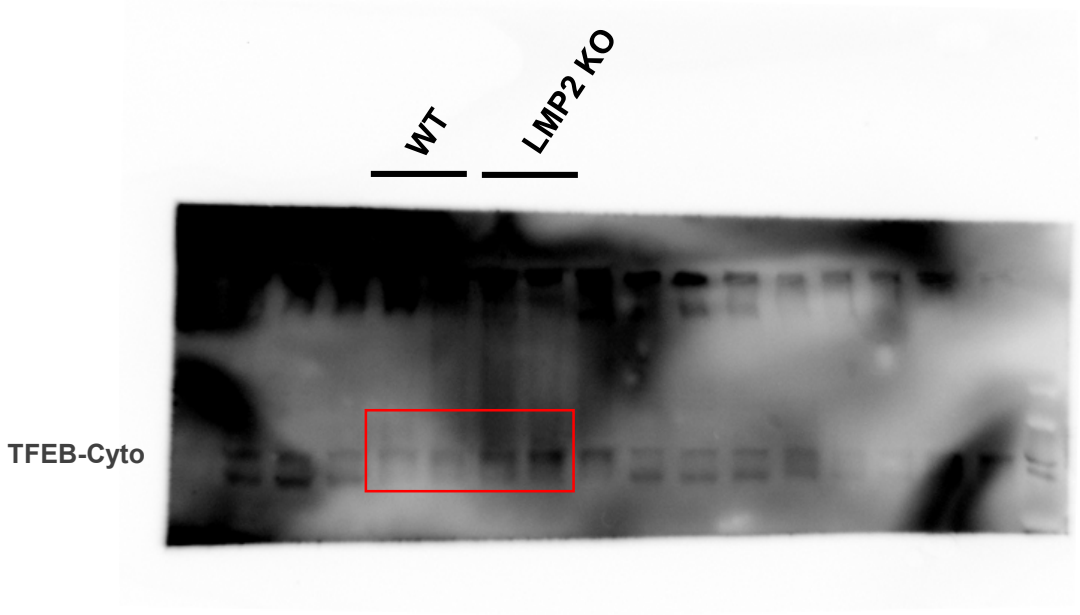

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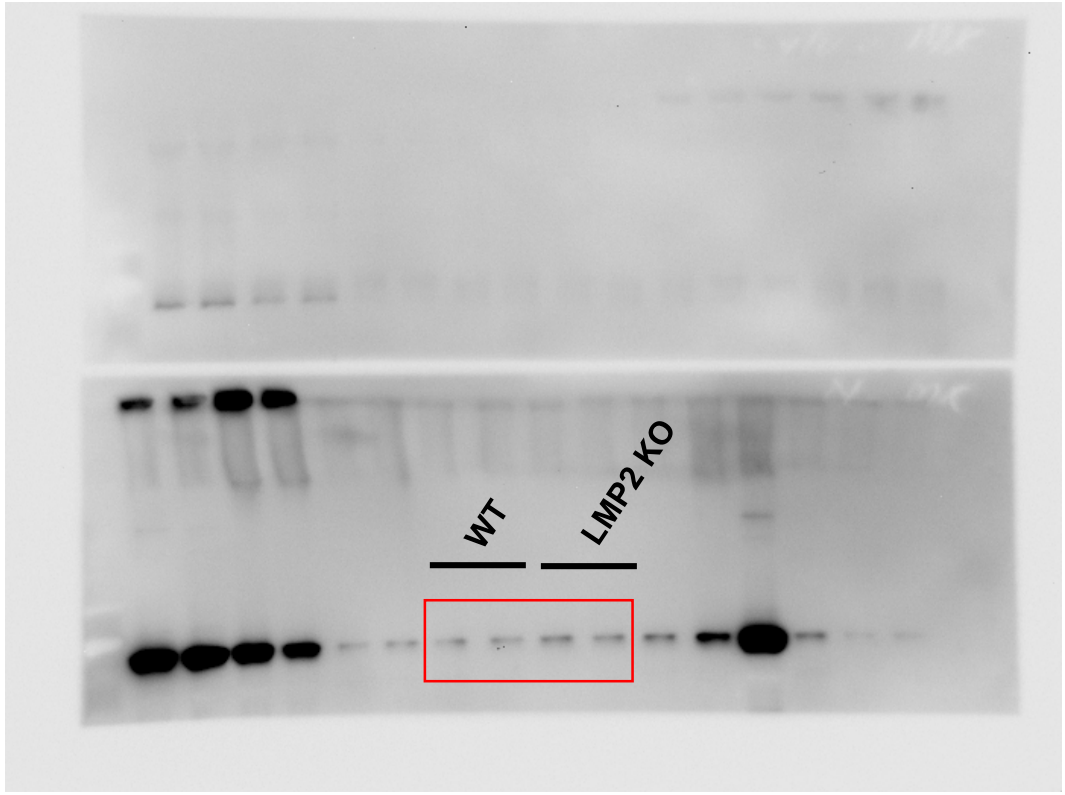

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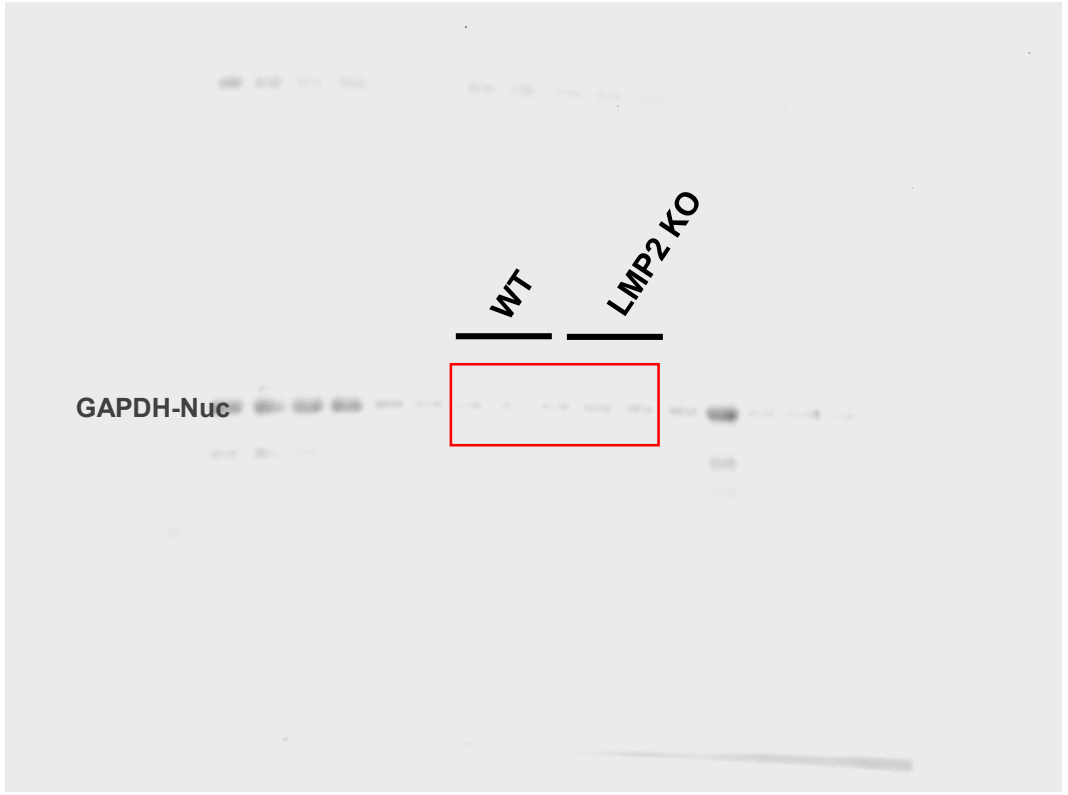

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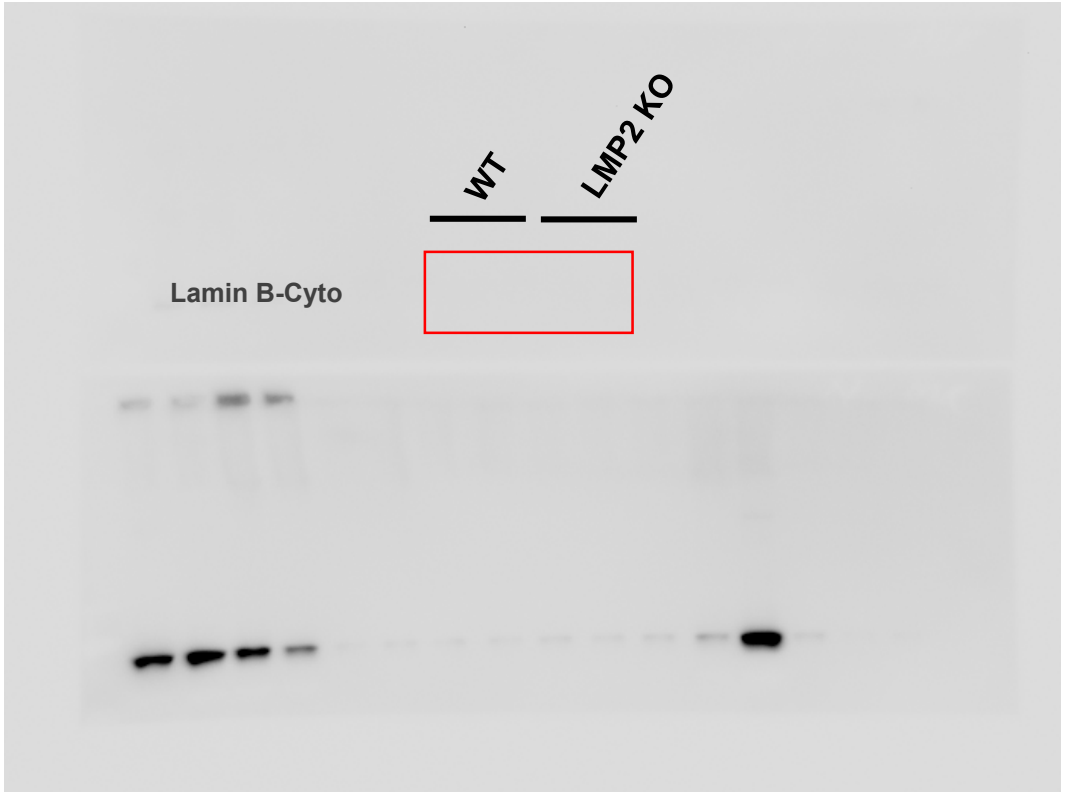

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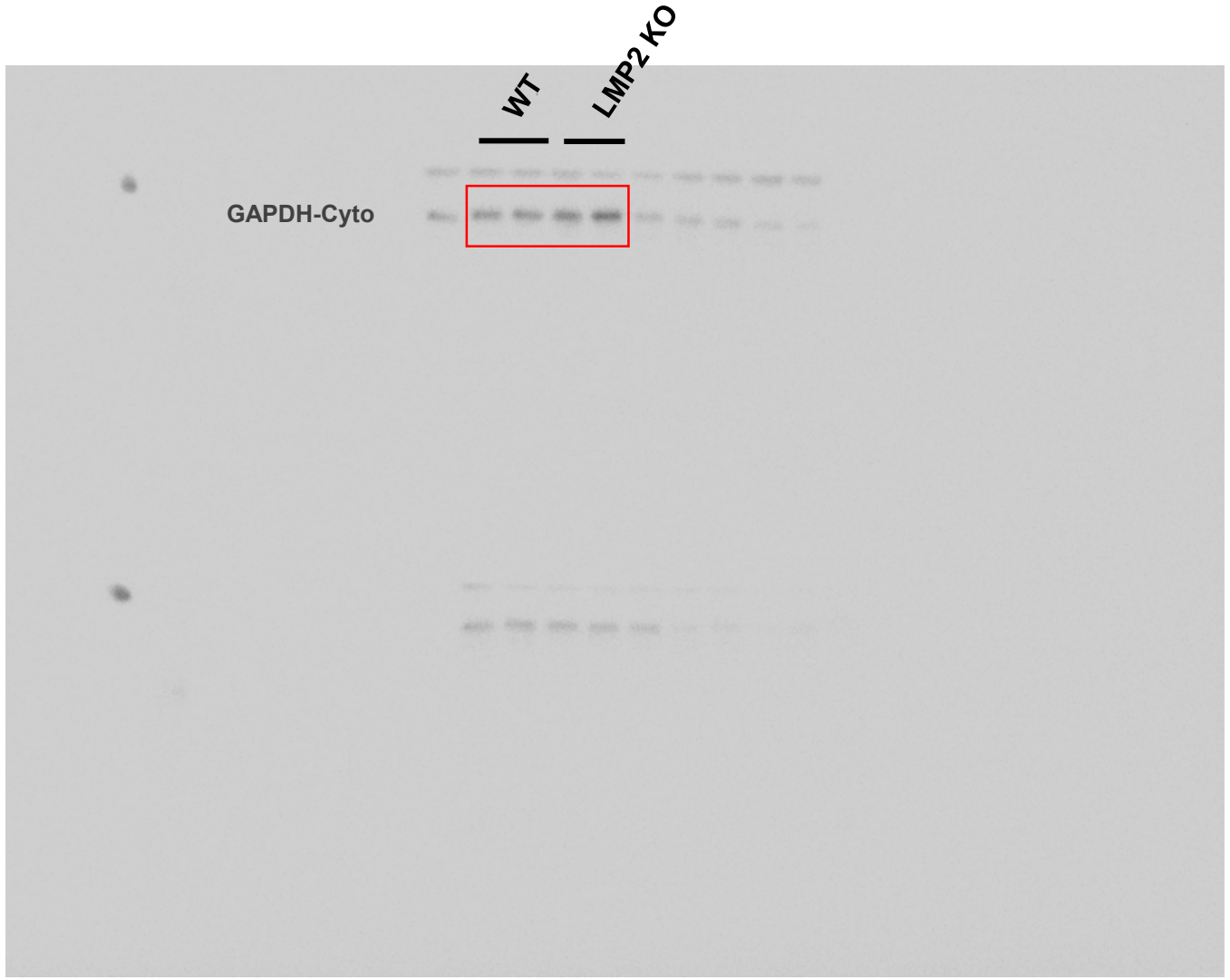

Fig. 4F

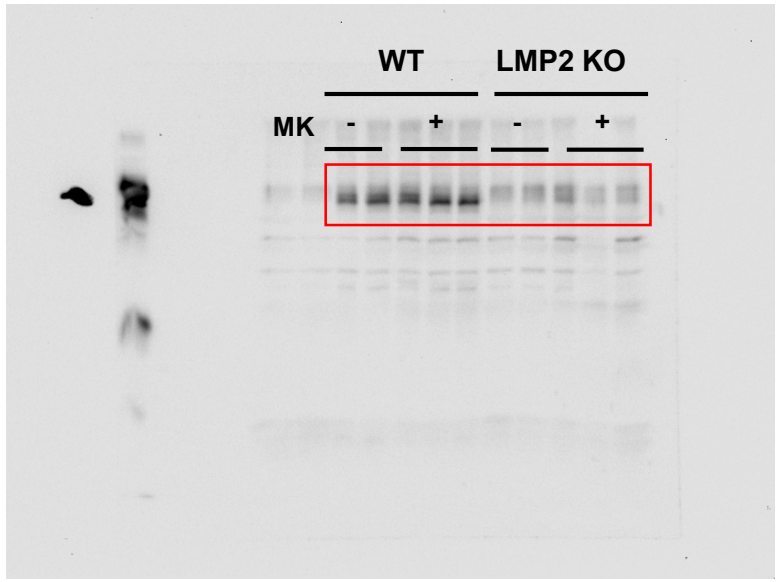

Fig. 4F

TFEB-Cyto

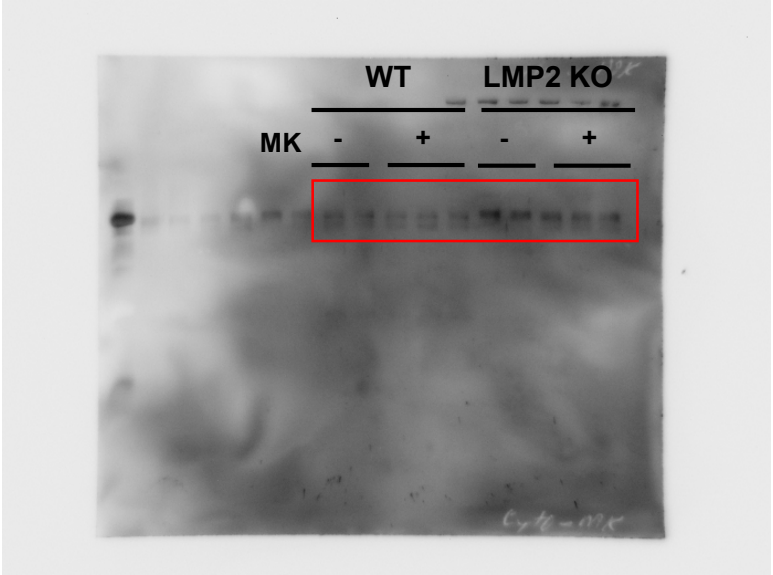

Fig. 4F

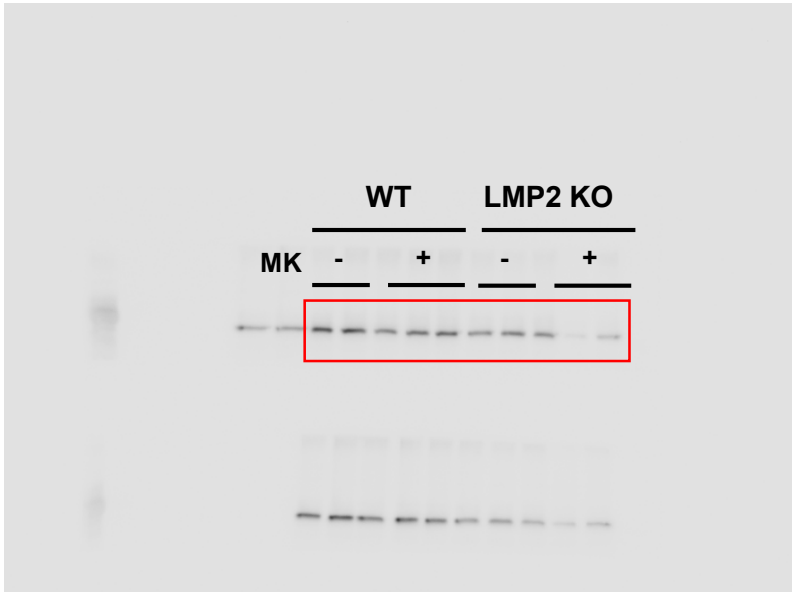

Fig. 4F

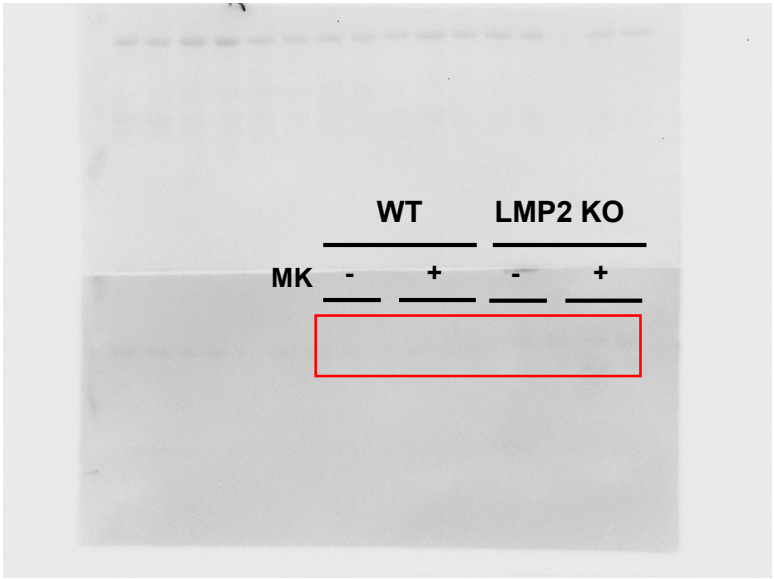

Fig. 4F

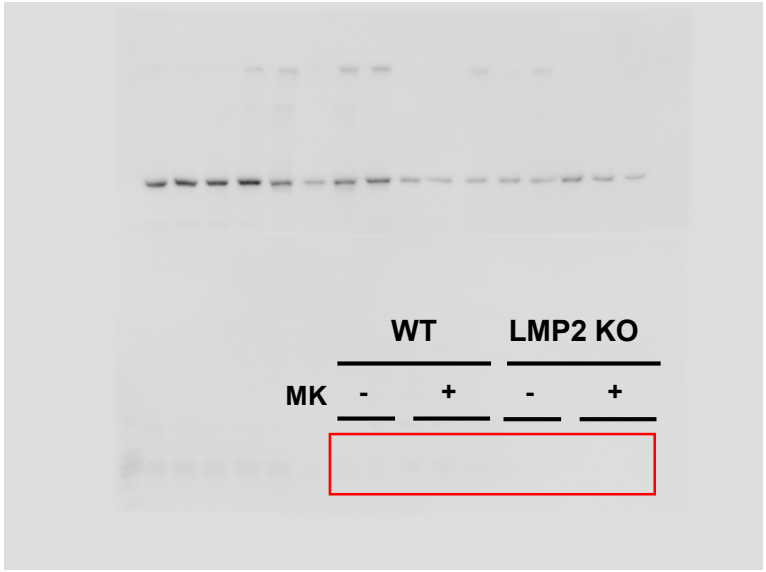

Fig. 4F

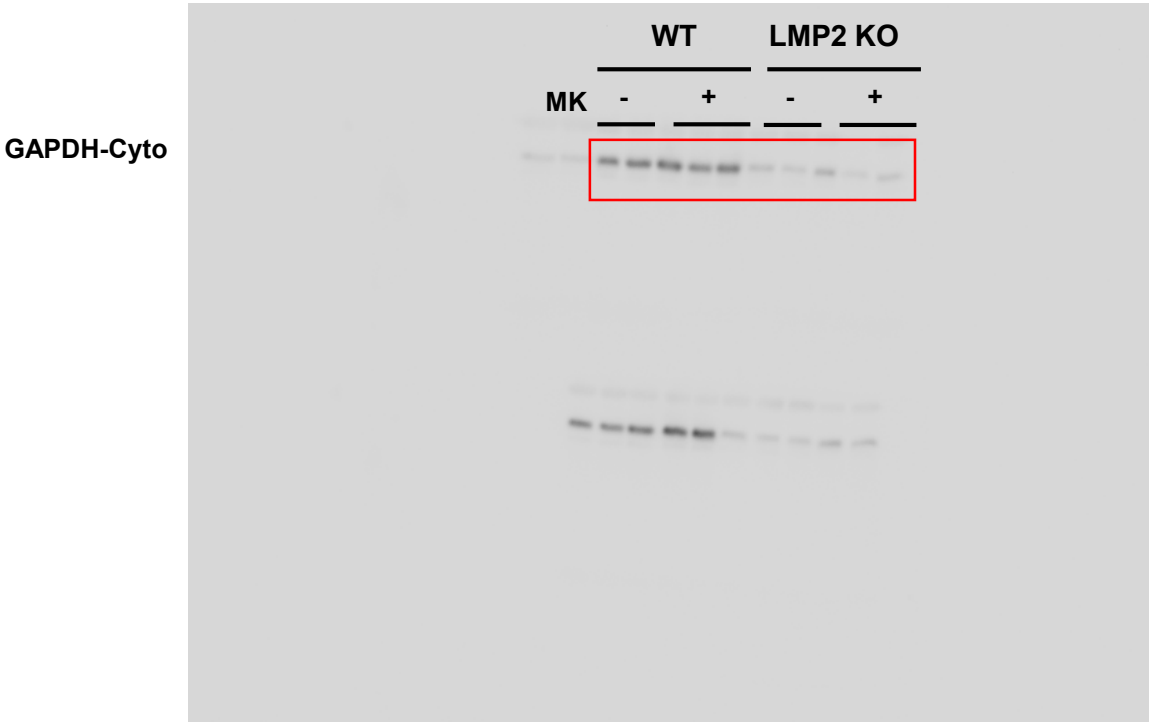

Fig. 4G: Trehalose

TFEB-Nuc

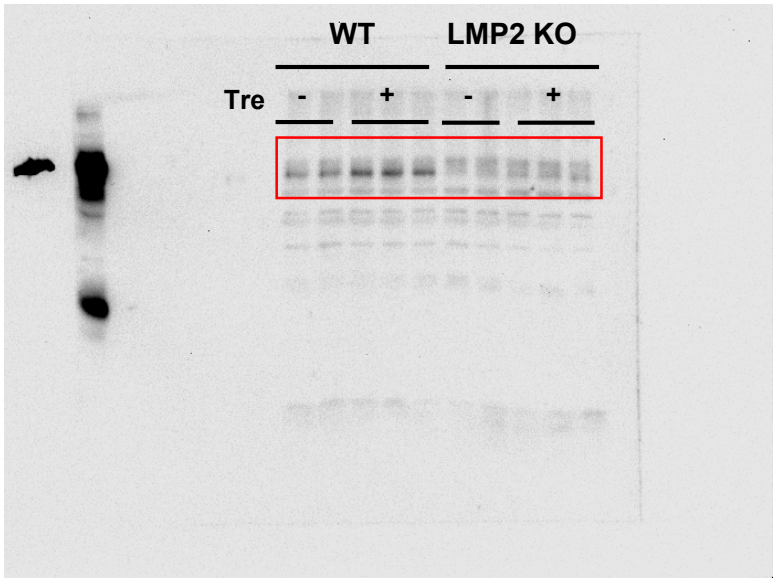

Fig. 4G: Trehalose

TFEB-Cyto

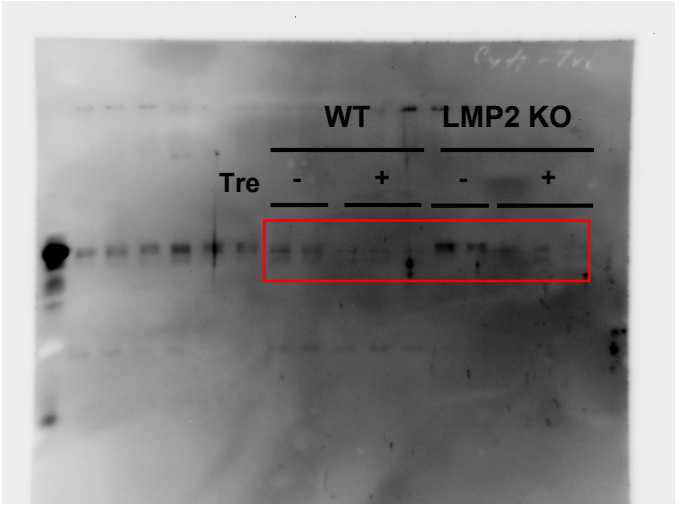

Fig. 4G: Trehalose

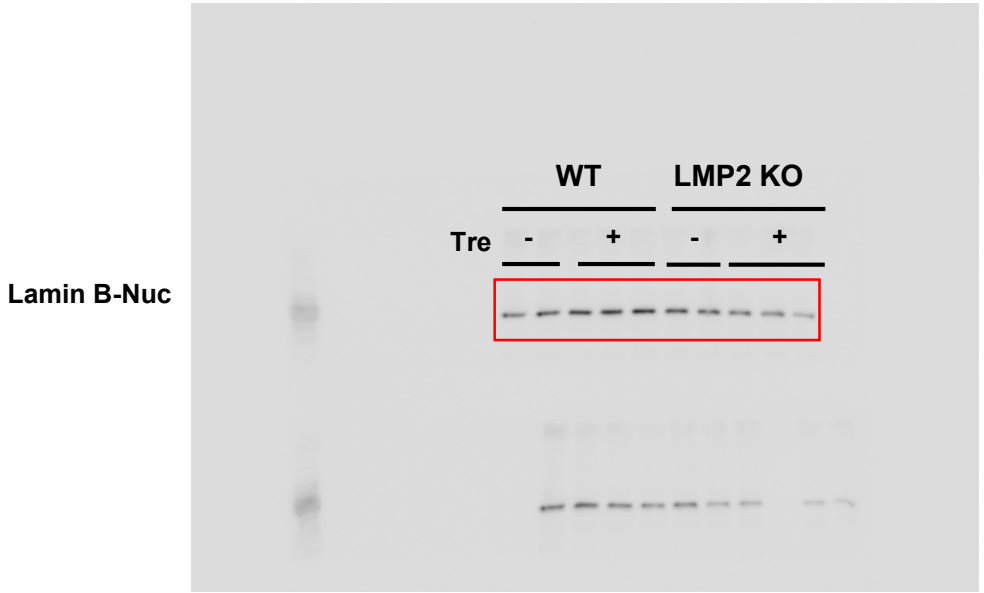

Fig. 4G: Trehalose

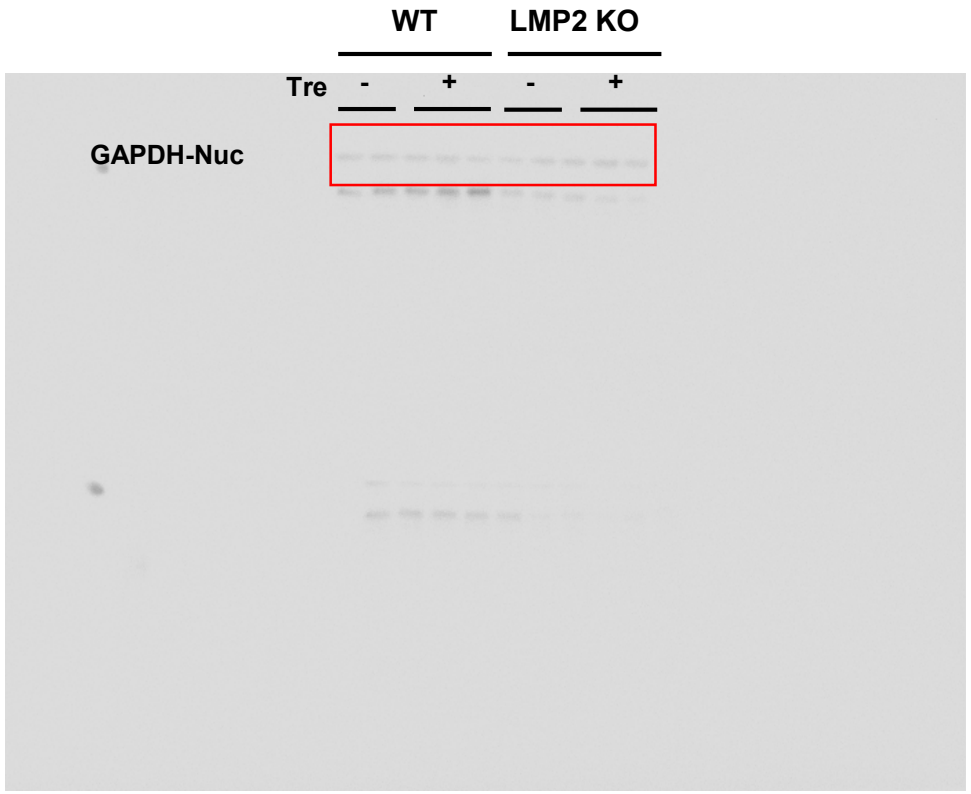

Fig. 4G: Trehalose

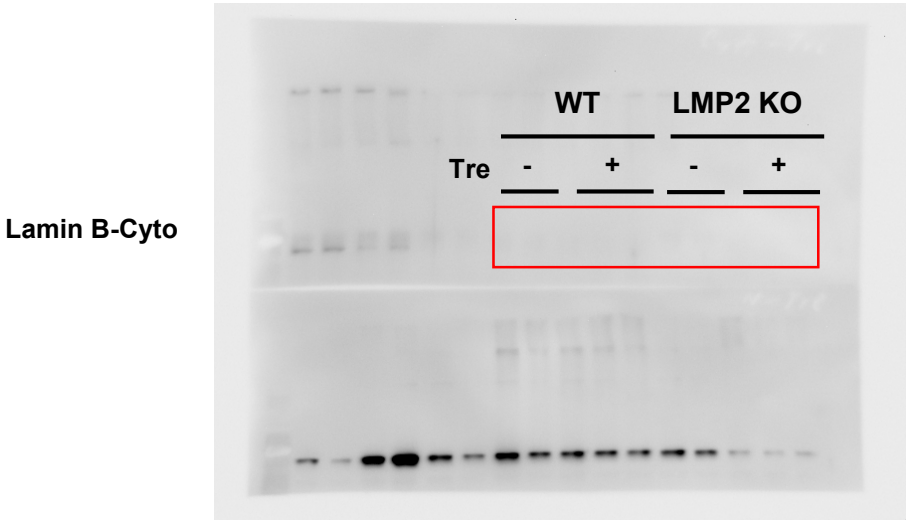
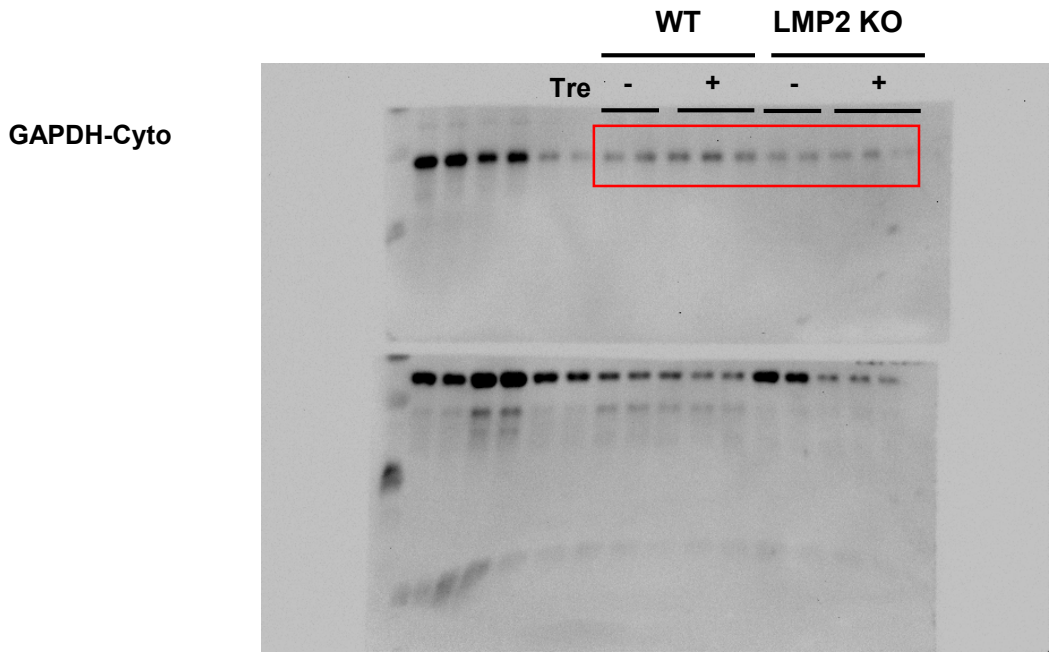
Fig. 4G: Trehalose