

Cathepsin B and D deficiency in the mouse pancreas induces impaired autophagy and chronic pancreatitis

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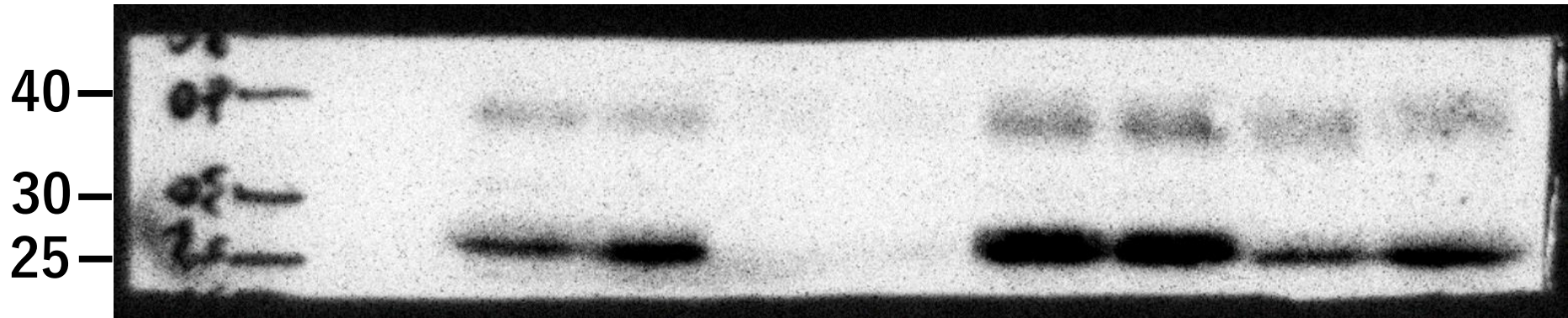
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Wild type

Ctsb^{ΔPan}

Ctsd^{ΔPan}

Ctsl^{ΔPan}



Primary antibody:

Ctsb (R&B AF965, 1:2500)

Chemiluminescent reagent:

Chemi-lumi One L (ex 5min)

Gel : e-PAEL[®](5-20%)

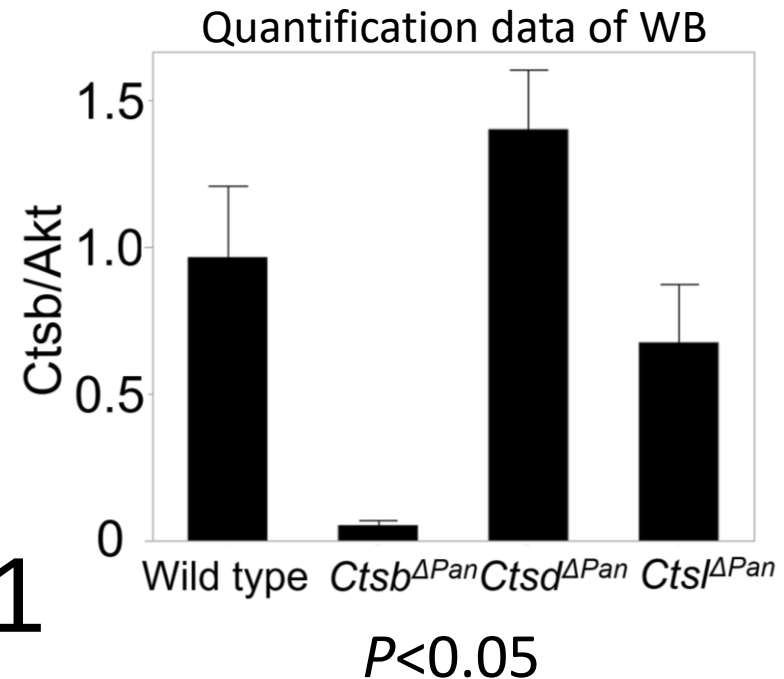
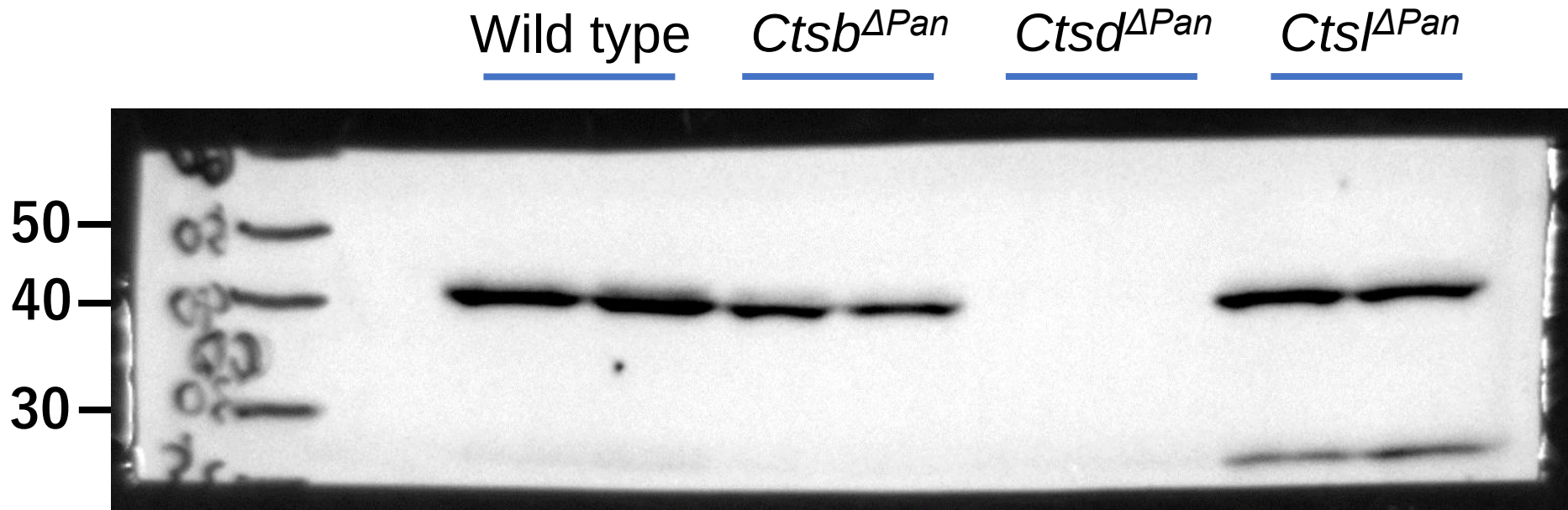


Figure 1

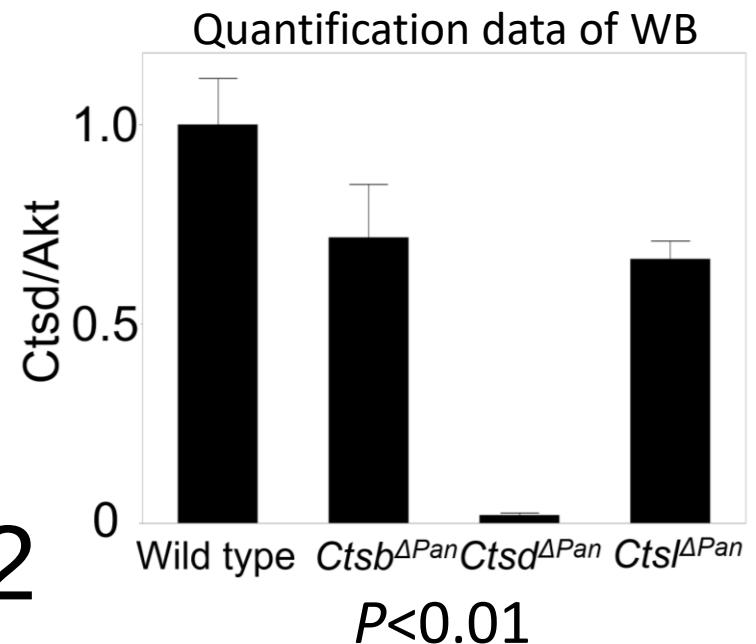


Primary antibody:
Ctsd (santa cruz sc-6486, 1:500)

Chemiluminescent reagent:
Chemi-lumi One L (ex 5min)

Gel : e-PAEL[®] (5-20%)

Figure 2

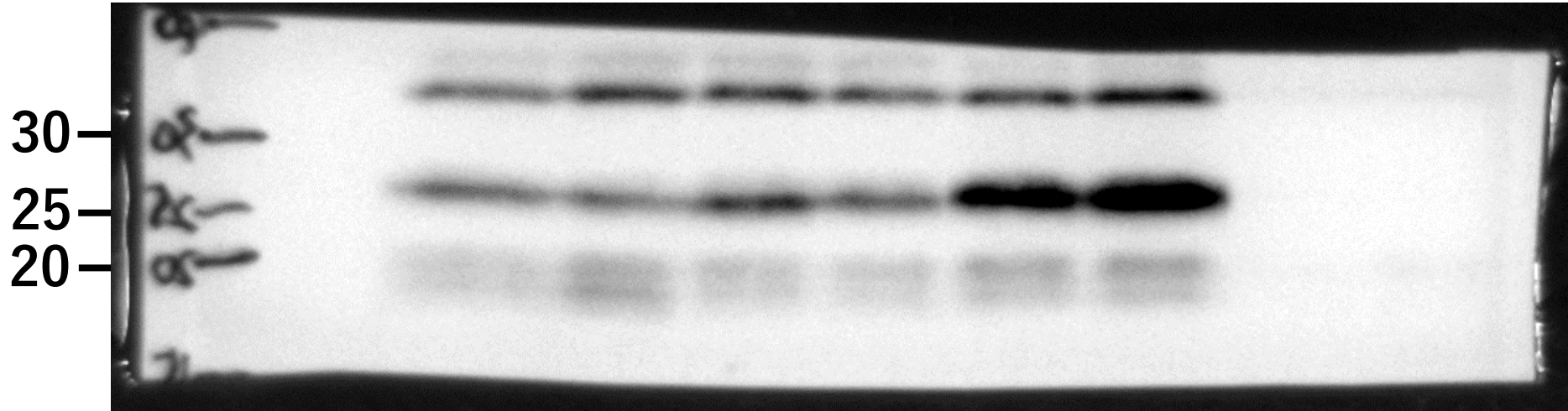


Wild type

Ctsb^{ΔPan}

Ctsd^{ΔPan}

Ctsl^{ΔPan}



Primary antibody:

Ctsl (R&B AF1515, 1:2000)

Chemiluminescent reagent:

Chemi-lumi One L (ex 5min)

Gel : e-PAEL[®](5-20%)

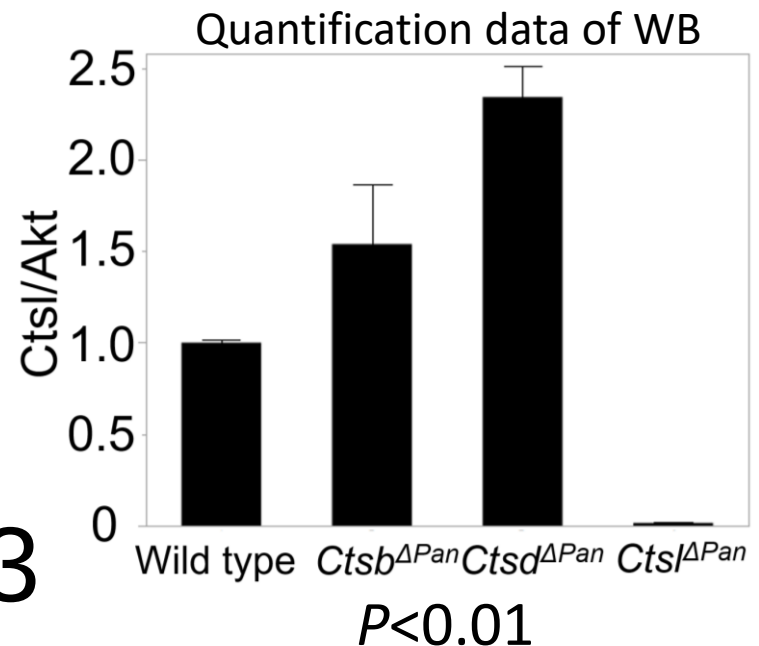


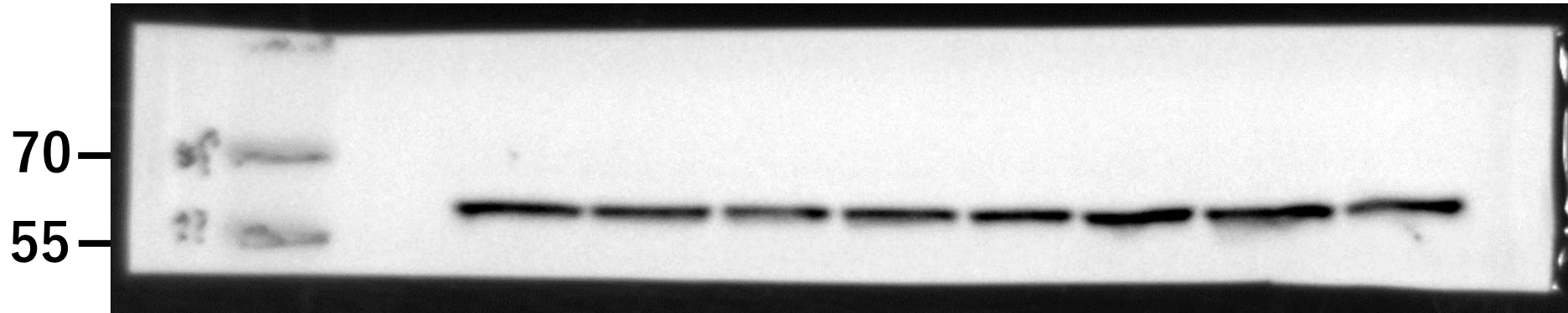
Figure 3

Wild type

Ctsb^{ΔPan}

Ctsd^{ΔPan}

Ctsl^{ΔPan}



Primary antibody : Akt (CST 9272, 1:1000)

Chemiluminescent reagent : Chemi-lumi One L (ex 2min)

Gel : e-PAEL[®](5-20%)

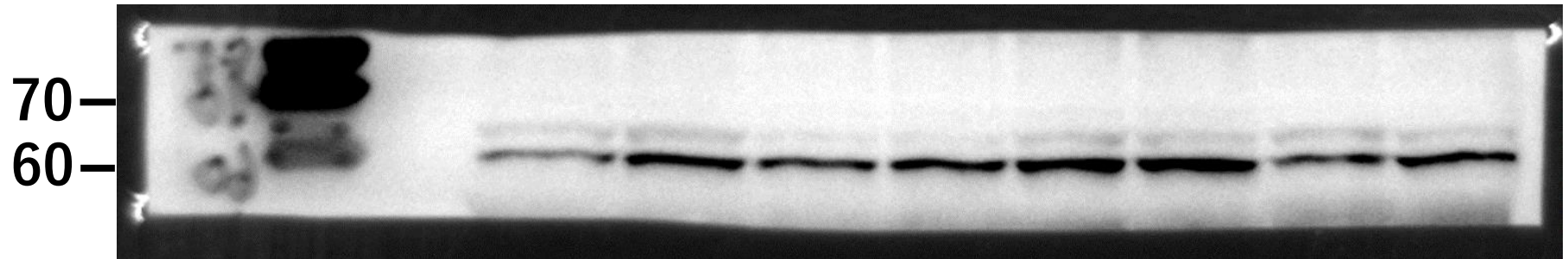
Figure 4

Wild type

Ctsb^{ΔPan}

Ctsd^{ΔPan}

Ctsl^{ΔPan}



Primary antibody:
p62 (MBL PM045, 1:5000)

Chemiluminescent reagent:
Chemi-lumi One super (ex 1min)

Gel : e-PAEL[®](5-20%)

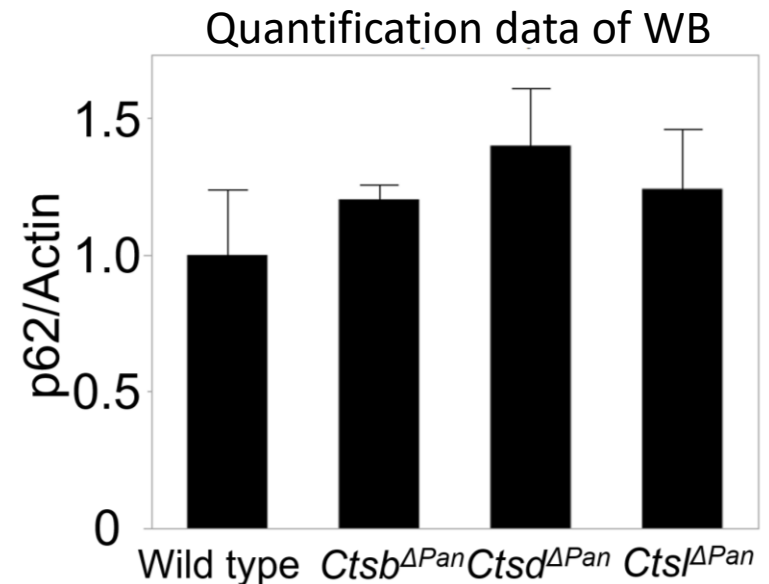
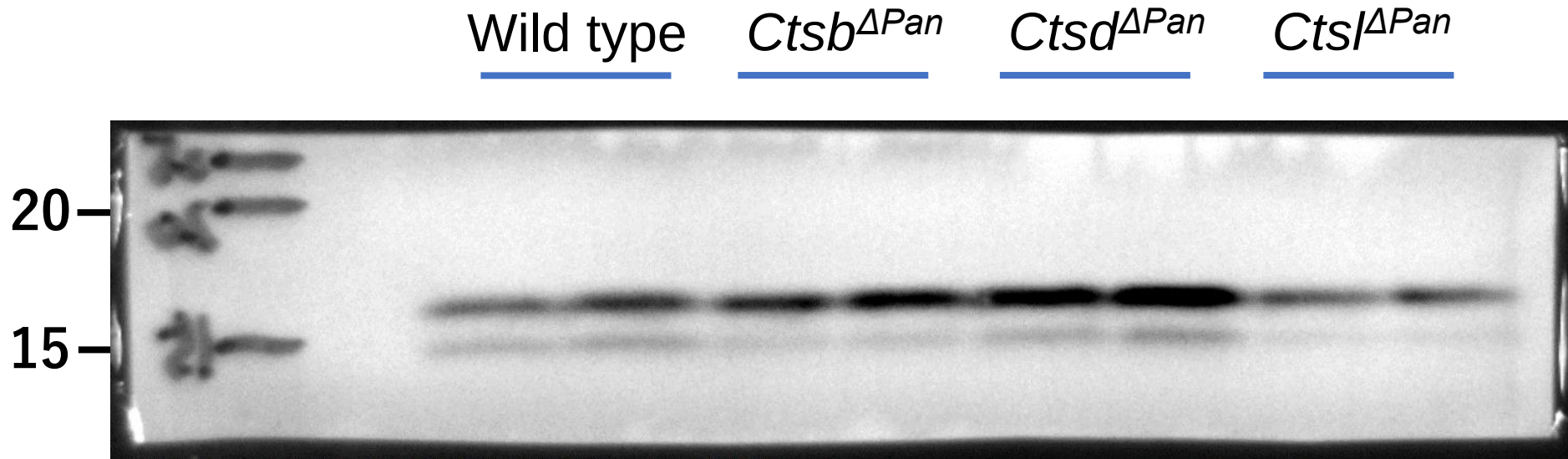


Figure 5

No significant difference



Primary antibody:
 LC3 (CST 2775, 1:1000)

Chemiluminescent reagent:
 Chemi-lumi One super (ex 3min)

Gel : e-PAEL[®] (5-20%)

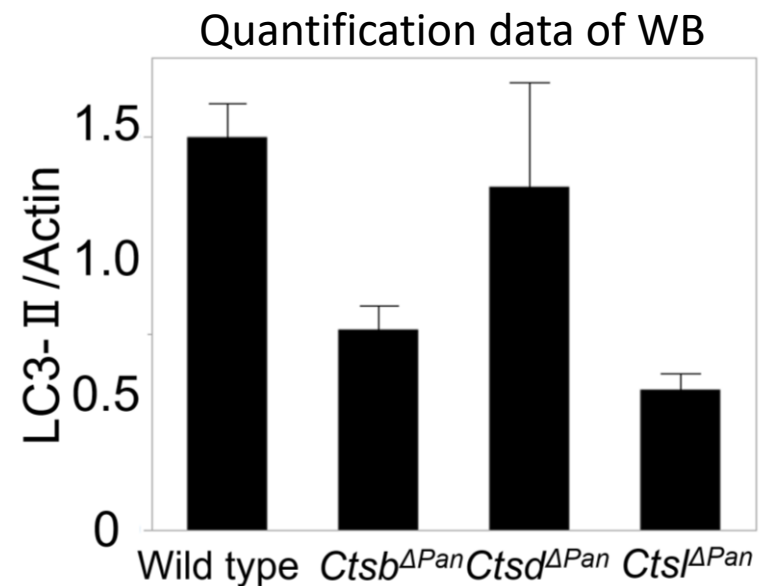


Figure 6

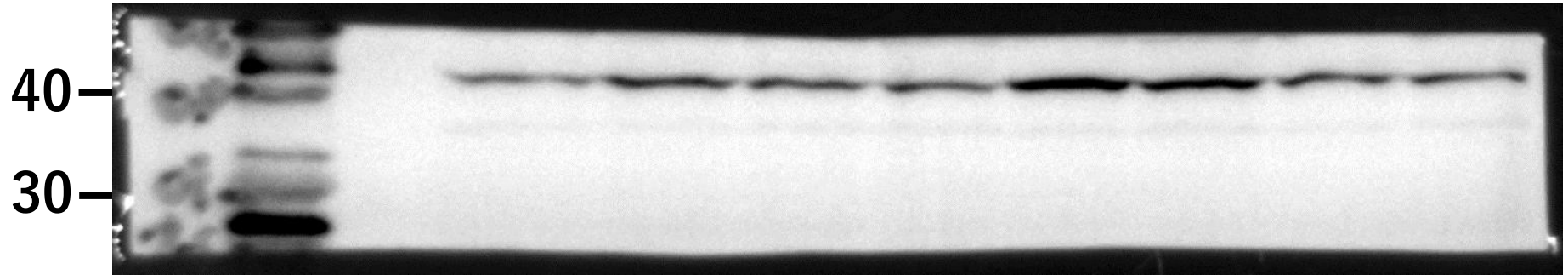
No significant difference

Wild type

Ctsb^{ΔPan}

Ctsd^{ΔPan}

Ctsl^{ΔPan}



Primary antibody : Actin (Sigma A5060, 1:2000)

Chemiluminescent reagent : Chemi-lumi One super (ex 3min)

Gel : e-PAEL[®](5-20%)

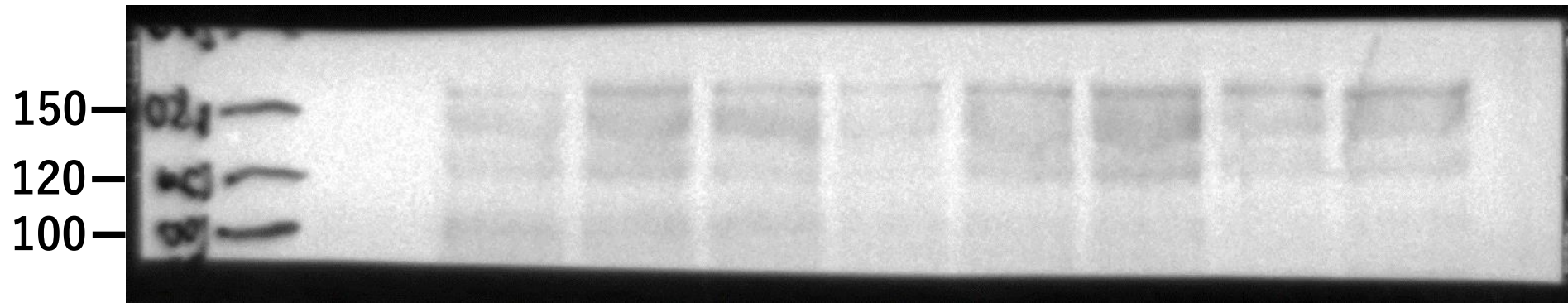
Figure 7

Wild type

Ctsb^{ΔPan}

Ctsd^{ΔPan}

Ctsl^{ΔPan}



Primary antibody:
ULK1 (Sigma A7481, 1:1000)

Chemiluminescent reagent:
Chemi-lumi One L (ex 5min)

Gel : e-PAEL[®](5-20%)

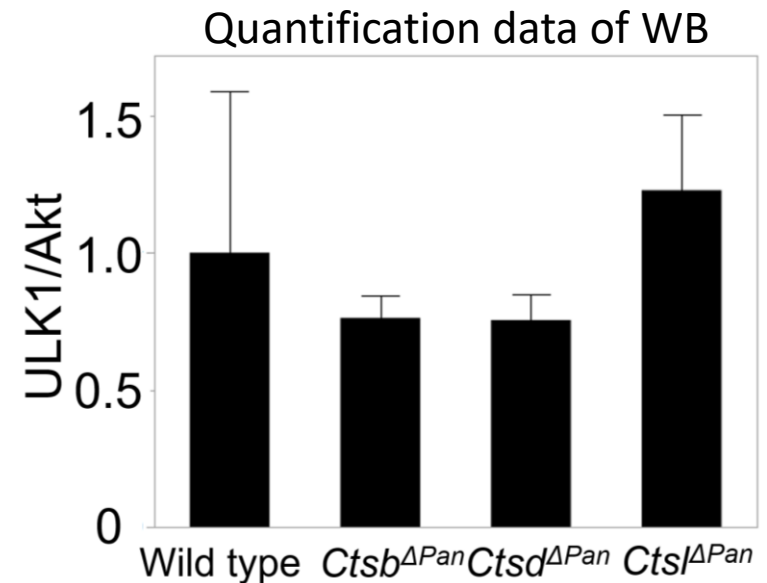
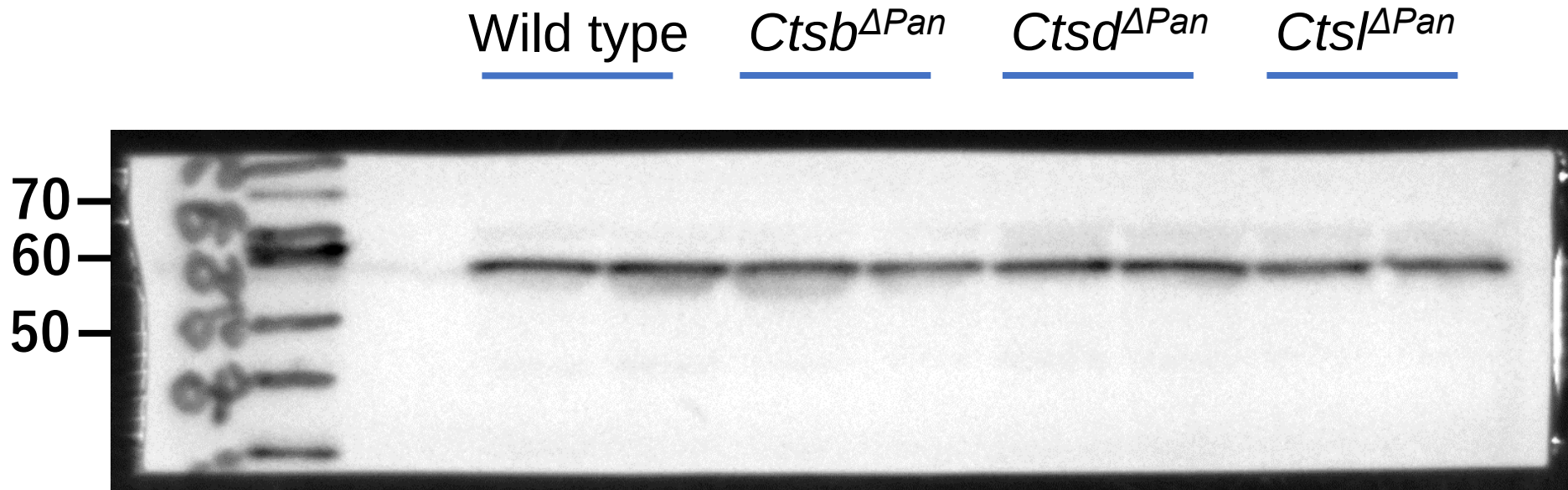


Figure 8

No significant difference



Primary antibody:
Becn1 (santa cruz 11427, 1:1000)

Chemiluminescent reagent:
Chemi-lumi One L (ex 5min)

Gel : e-PAEL[®](5-20%)

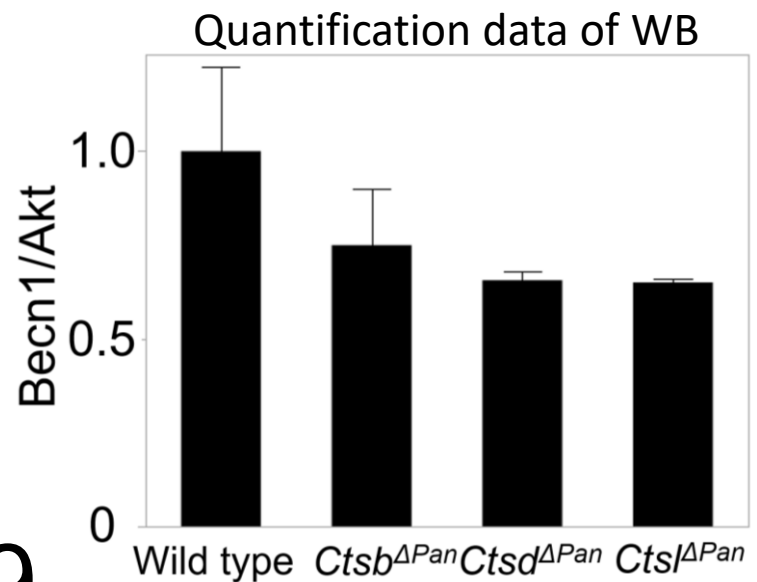


Figure 9

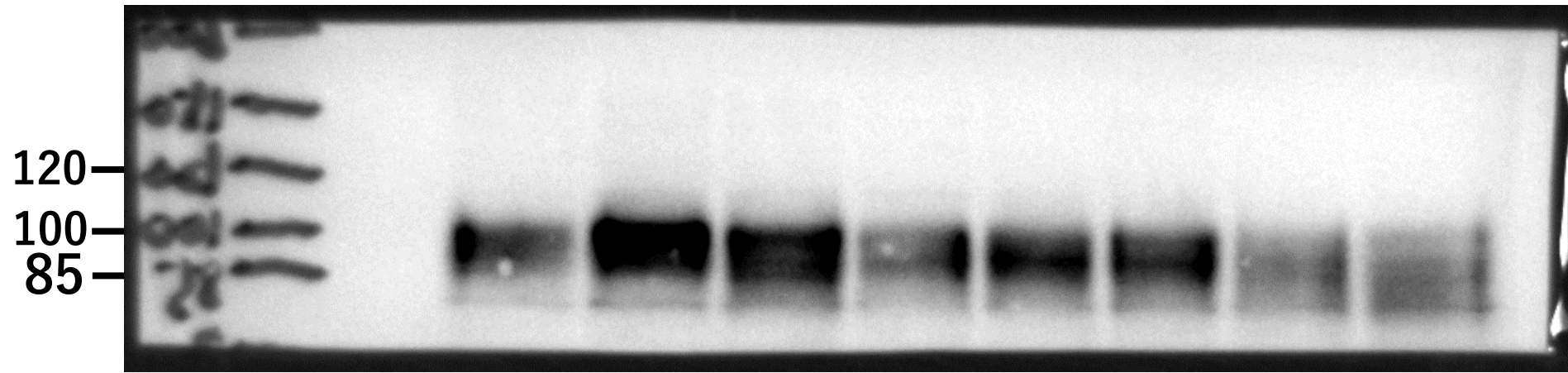
No significant difference

Wild type

Ctsb^{ΔPan}

Ctsd^{ΔPan}

Ctsl^{ΔPan}



Primary antibody:
LAMP2 (Sigma L0668, 1:1000)

Chemiluminescent reagent:
Chemi-lumi One super (ex 1min)

Gel : e-PAEL[®](5-20%)

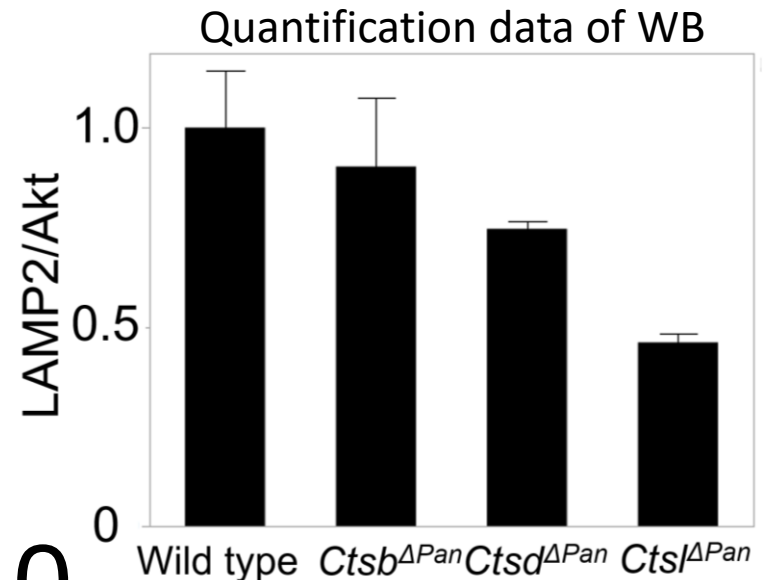


Figure 10

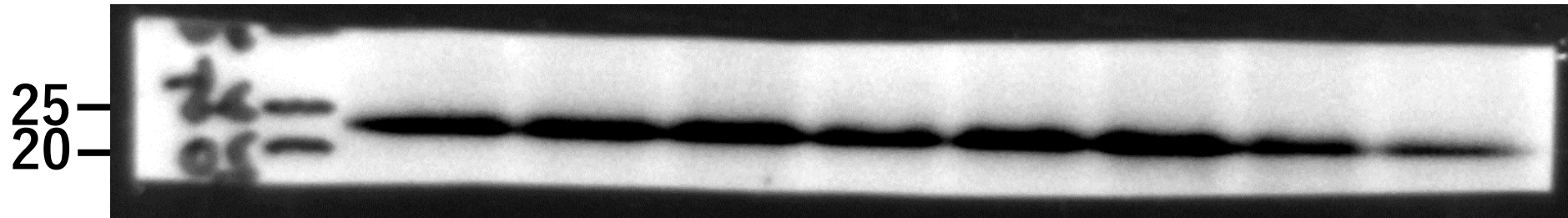
No significant difference

Wild type

Ctsb^{ΔPan}

Ctsd^{ΔPan}

Ctsl^{ΔPan}



Primary antibody:
Rab7 (Sigma R8779, 1:1000)

Chemiluminescent reagent:
Chemi-lumi One L (ex 2min)

Gel : e-PAEL[®](5-20%)

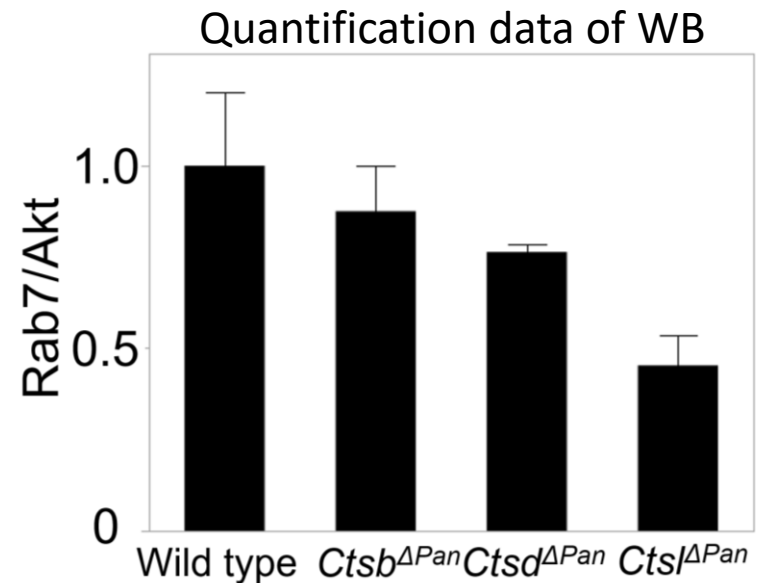


Figure 11

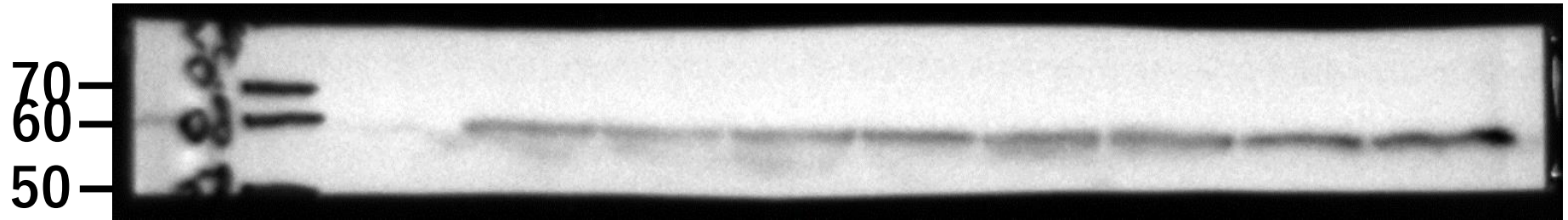
No significant difference

Wild type

Ctsb^{ΔPan}

Ctsd^{ΔPan}

Ctsl^{ΔPan}

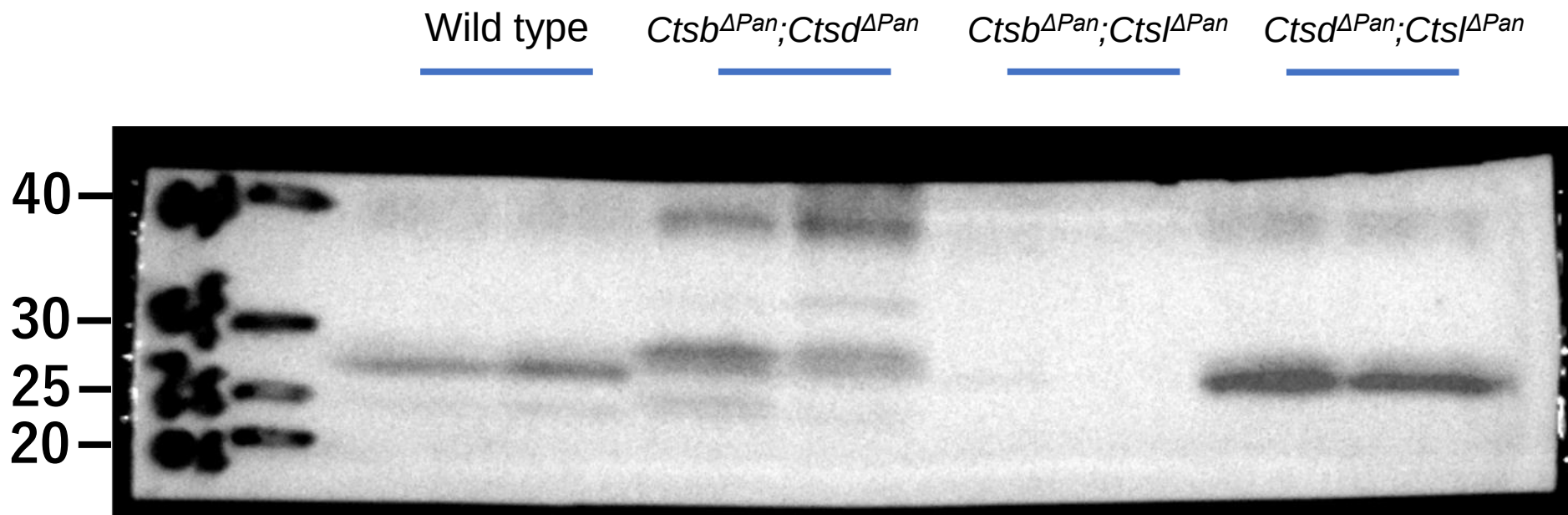


Primary antibody : Akt (CST 9272, 1:1000)

Chemiluminescent reagent : Chemi-lumi One L (ex 5min)

Gel : e-PAEL[®](5-20%)

Figure 12



Primary antibody :
Ctsb (R&B AF965, 1:2500)
 Chemiluminescent reagent :
 Chemi-lumi One L (ex 5min)
 Gel : e-PAEL[®](5-20%)

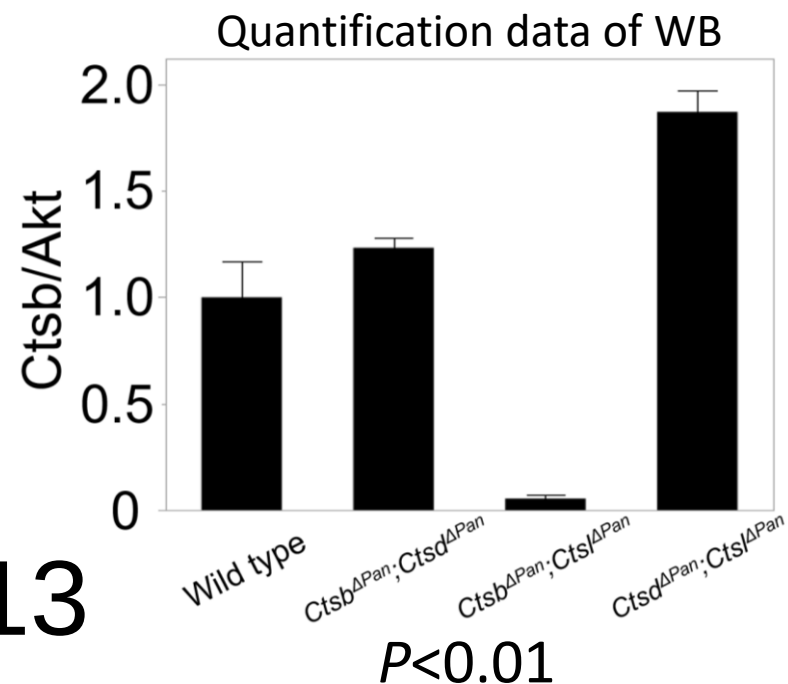
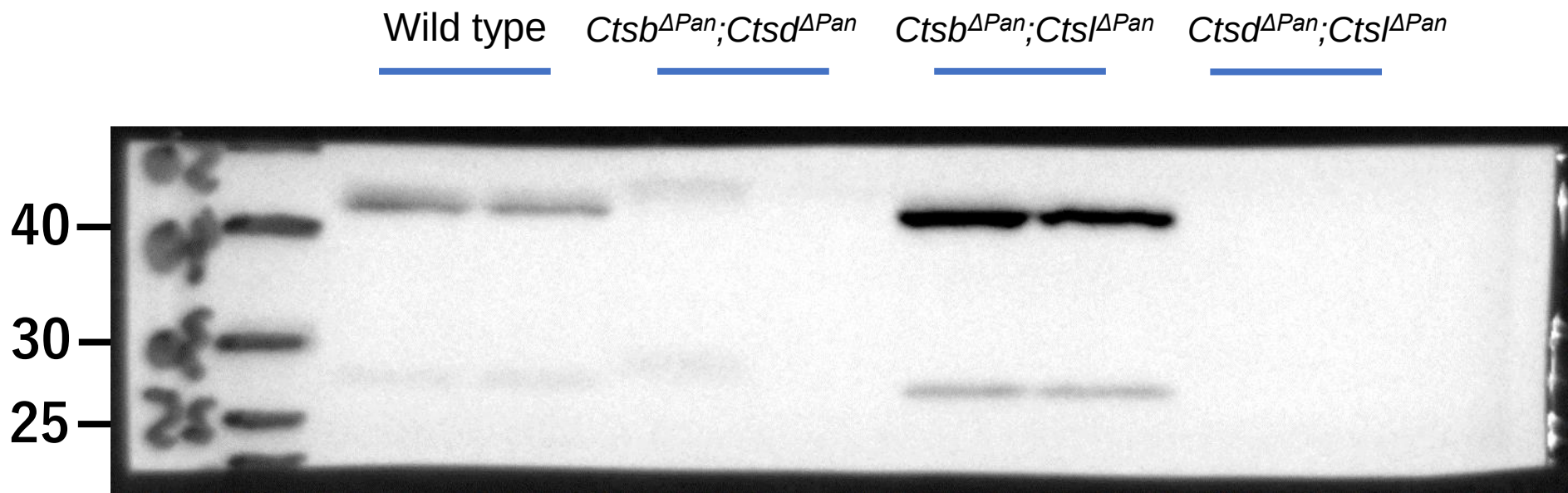


Figure 13



Primary antibody :
Ctld (santa cruz sc-6486,1:500)

Chemiluminescent reagent :
Chemi-lumi One L (ex 5min)

Gel : e-PAEL[®](5-20%)

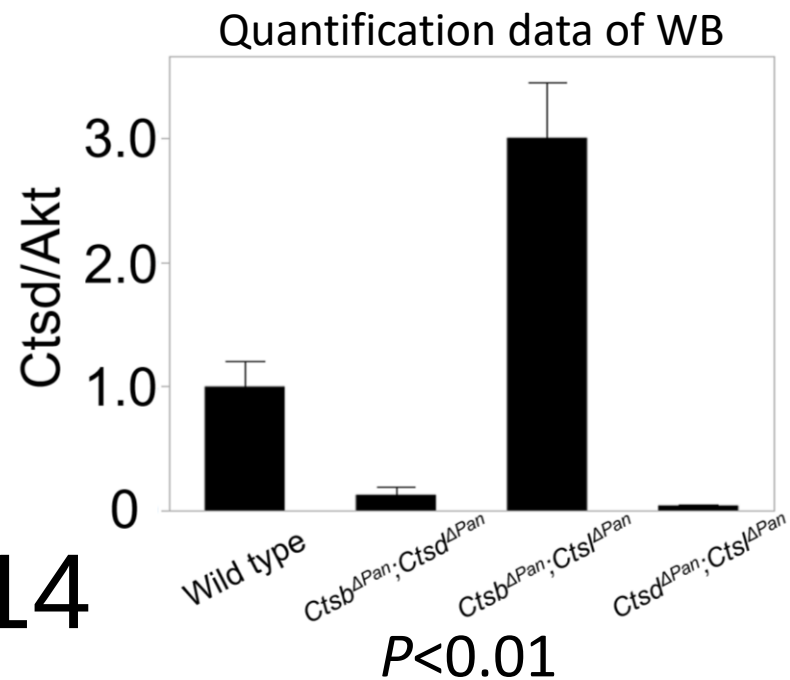
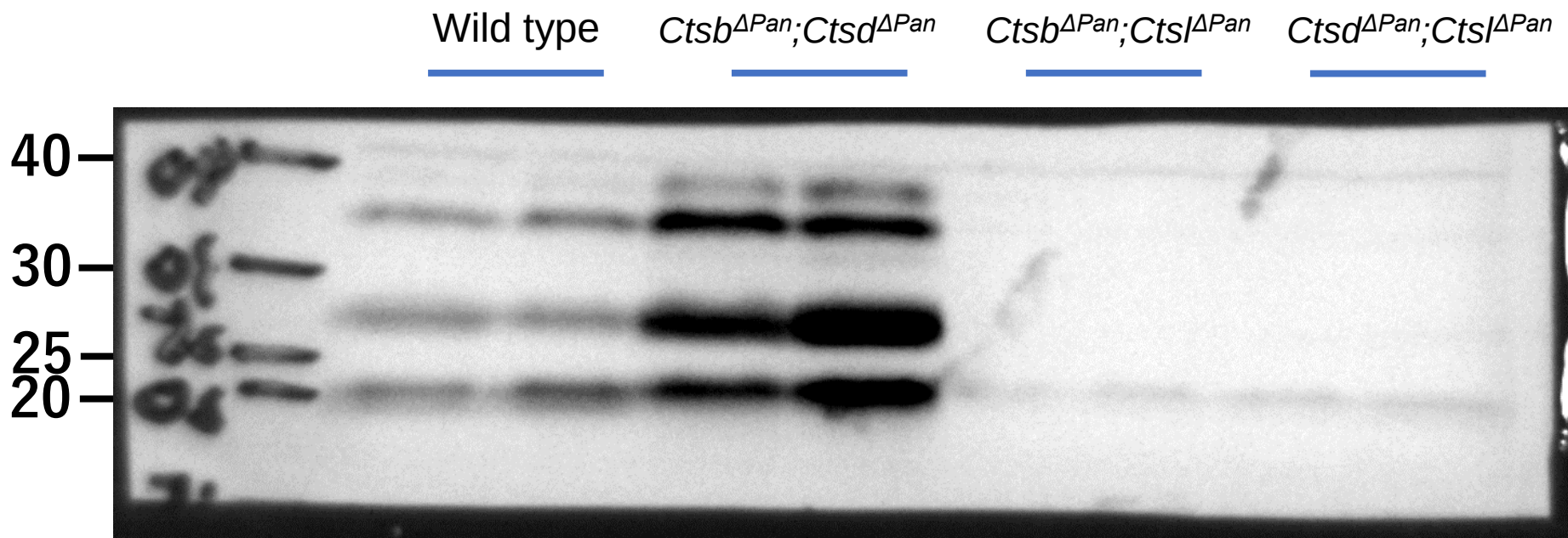
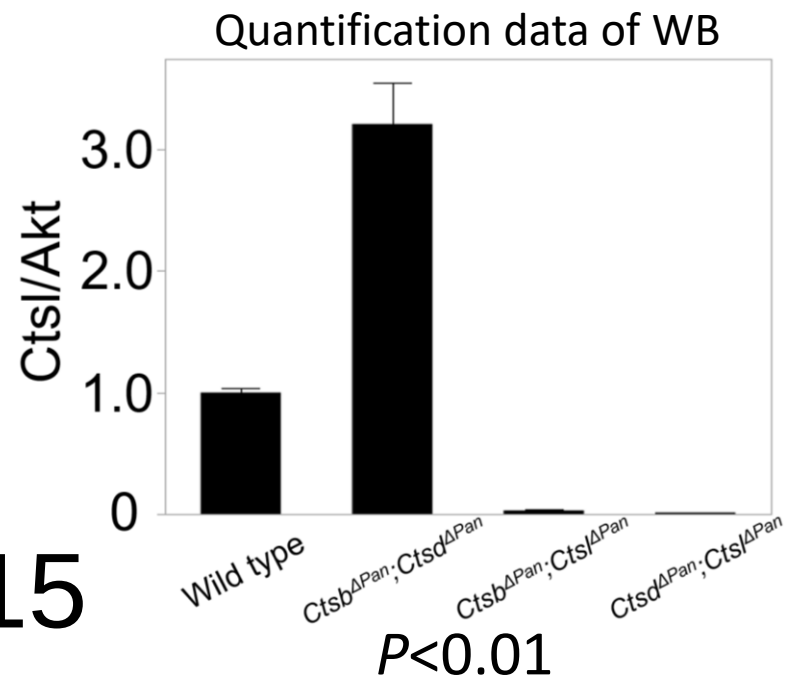


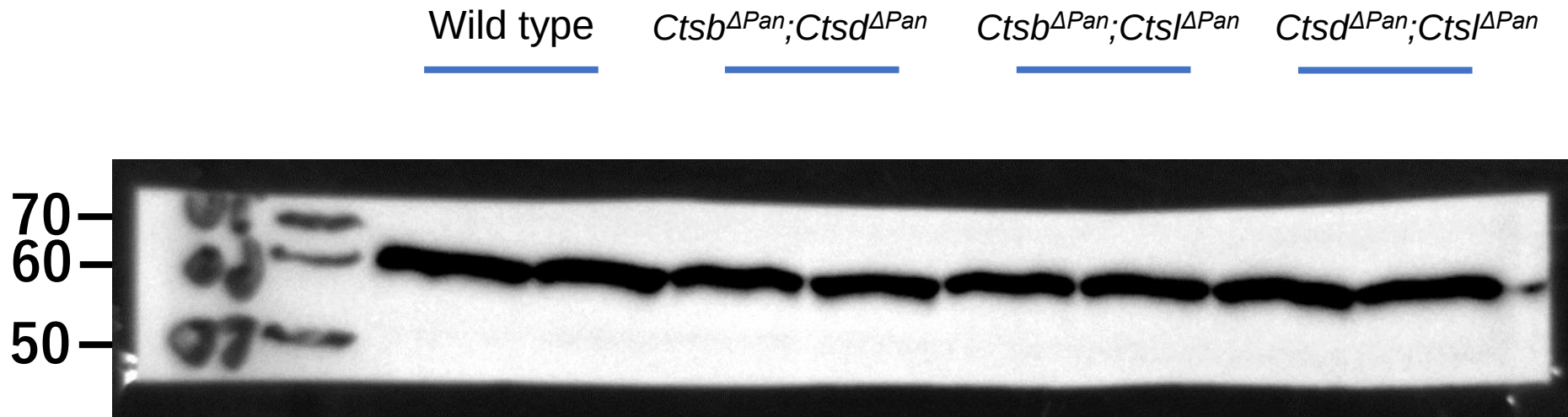
Figure 14



Primary antibody :
 CtsI (R&B AF1515, 1:2000)
 Chemiluminescent reagent :
 Chemi-lumi One L (ex 5min)
 Gel : e-PAEL[®](5-20%)

Figure 15





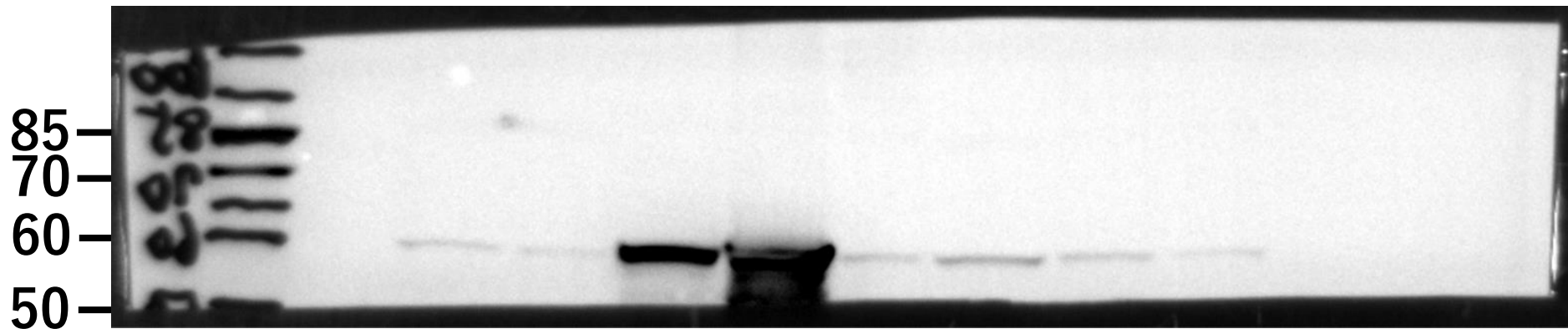
Primary antibody : Akt (CST 9272, 1:1000)

Chemiluminescent reagent : Chemi-lumi One L (ex 1min)

Gel : e-PAEL[®](5-20%)

Figure 16

Wild type Ctsb^{ΔPan};Ctsd^{ΔPan} Ctsb^{ΔPan};Ctsl^{ΔPan} Ctsd^{ΔPan};Ctsl^{ΔPan}



Primary antibody :
p62 (MBL PM045, 1:5000)

Chemiluminescent reagent :
Chemi-lumi One L (ex 1min)

Gel : e-PAEL[®](5-20%)

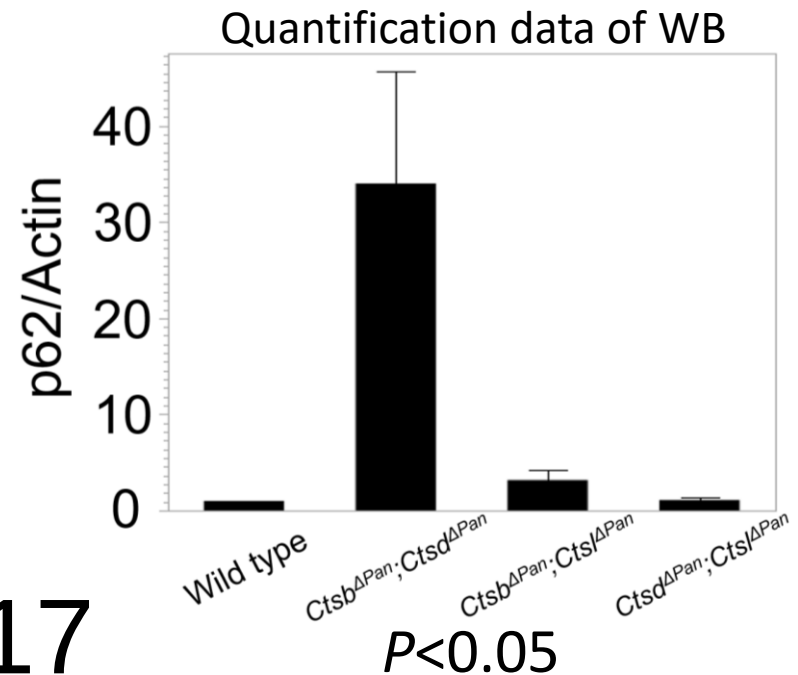
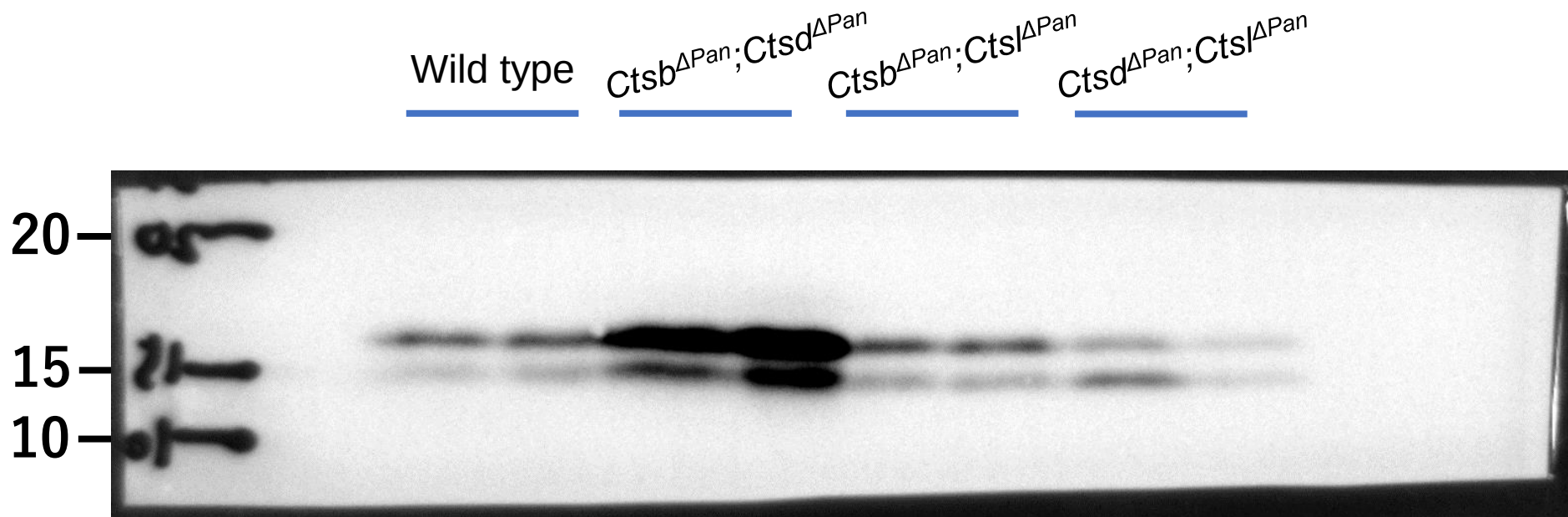


Figure 17



Primary antibody :
 LC3 (CST 2775, 1:1000)
 Chemiluminescent reagent :
 Chemi-lumi One L (ex 5min)
 Gel : e-PAEL[®](5-20%)

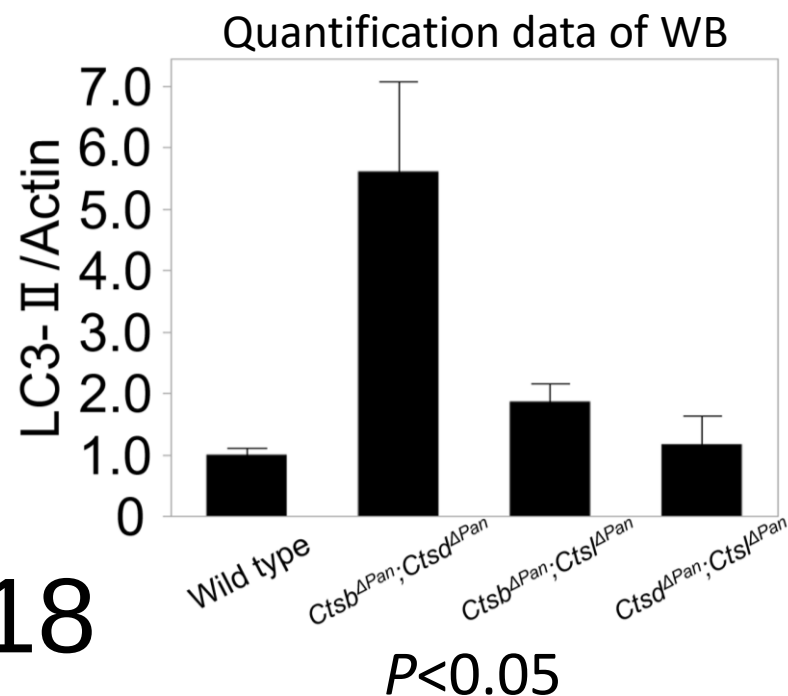
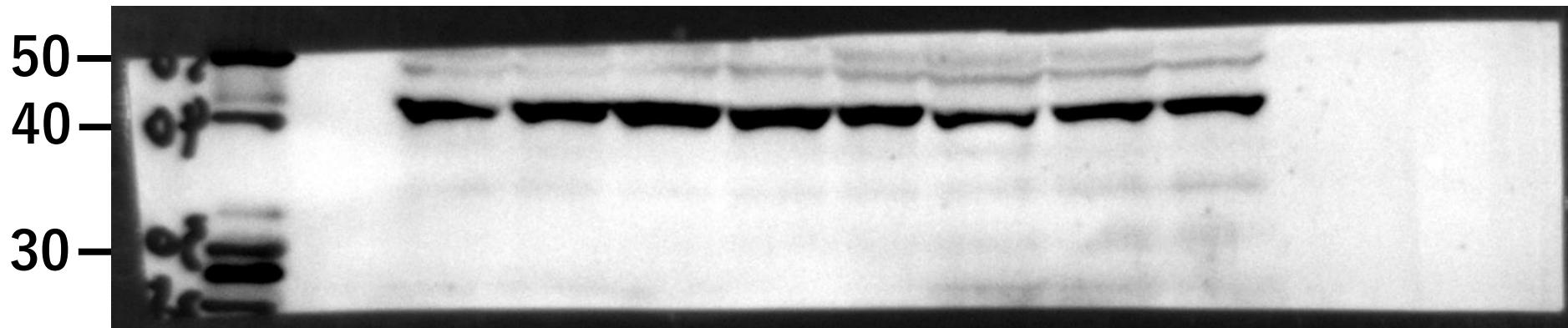


Figure 18



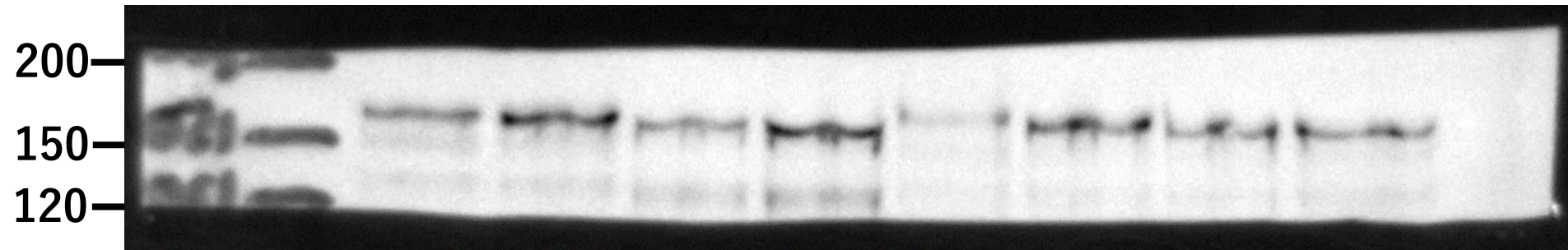
Primary antibody : Actin (Sigma A5060,1:2000)

Chemiluminescent reagent : Chemi-lumi One L (ex 3min)

Gel : e-PAEL[®](5-20%)

Figure 19

Wild type *Ctsb*^{ΔPan};*Ctsd*^{ΔPan} *Ctsb*^{ΔPan};*Ctsl*^{ΔPan} *Ctsd*^{ΔPan};*Ctsl*^{ΔPan}



Primary antibody :
ULK1 (Sigma A7481, 1:1000)

Chemiluminescent reagent :
Chemi-lumi One L (ex 5min)

Gel : e-PAEL[®](5-20%)

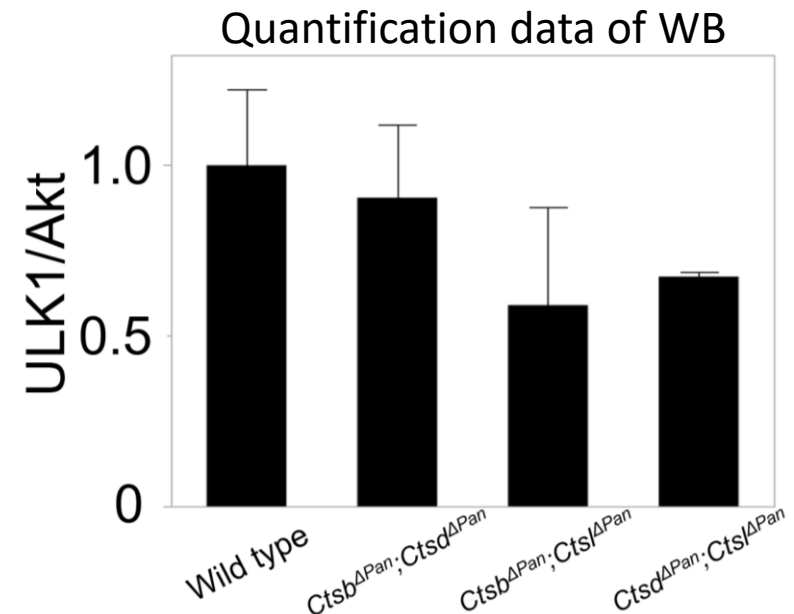
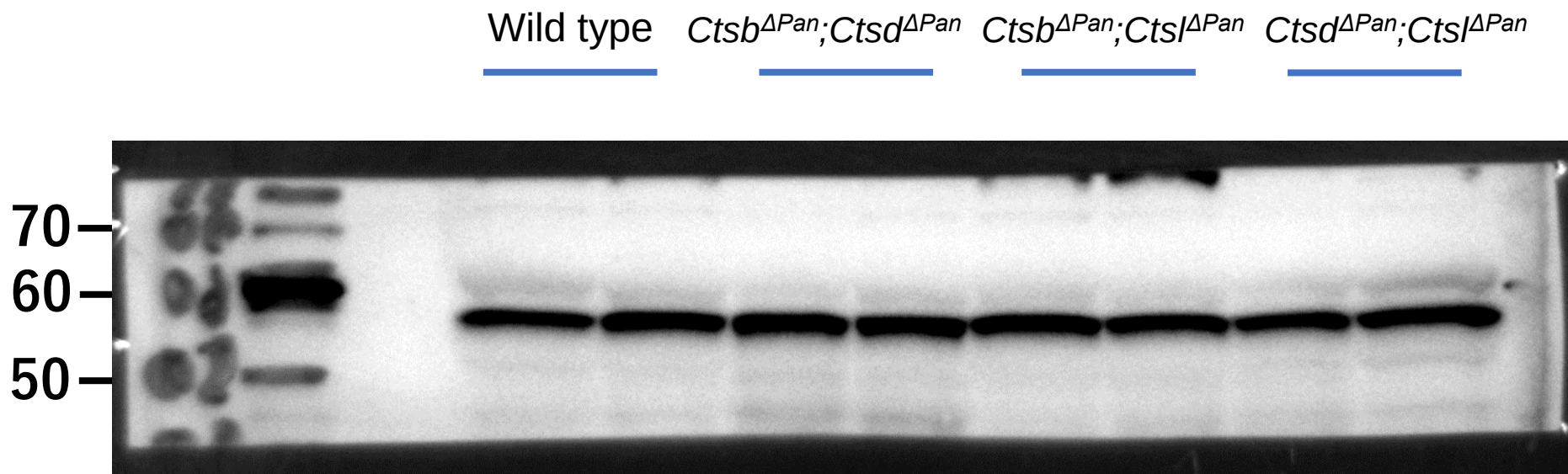


Figure 20 No significant difference



Primary antibody :
Becn1 (santa cruz 11427,1:1000)

Chemiluminescent reagent :
Chemi-lumi One super (ex 2min)

Gel : e-PAEL[®](5-20%)

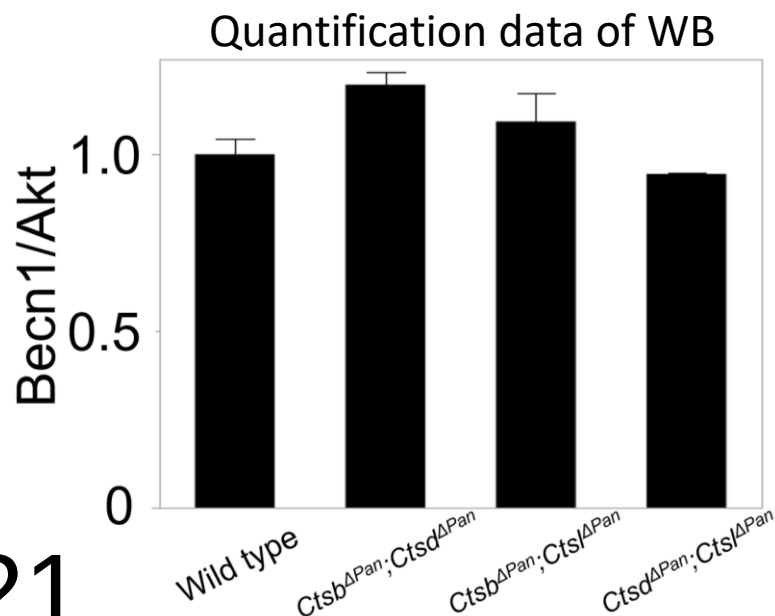


Figure 21

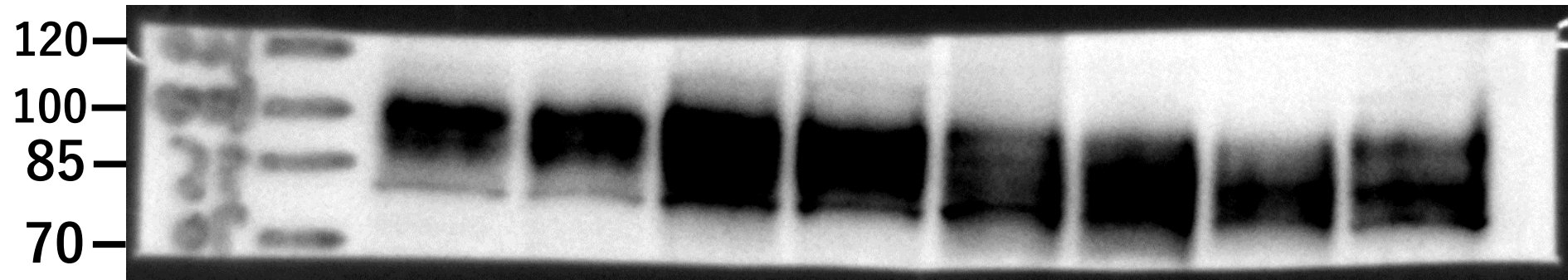
No significant difference

Wild type

Ctsb^{ΔPan};*Ctsd*^{ΔPan}

Ctsb^{ΔPan};*Ctsl*^{ΔPan}

Ctsd^{ΔPan};*Ctsl*^{ΔPan}



Primary antibody :

LAMP2 (Sigma L0668, 1:1000)

Chemiluminescent reagent :

Chemi-lumi One super (ex 3min)

Gel : e-PAEL[®](5-20%)

Quantification data of WB

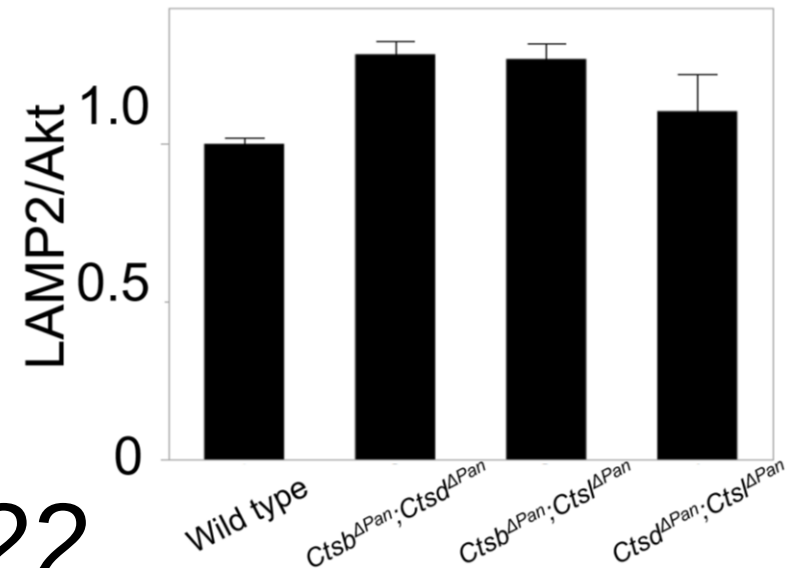
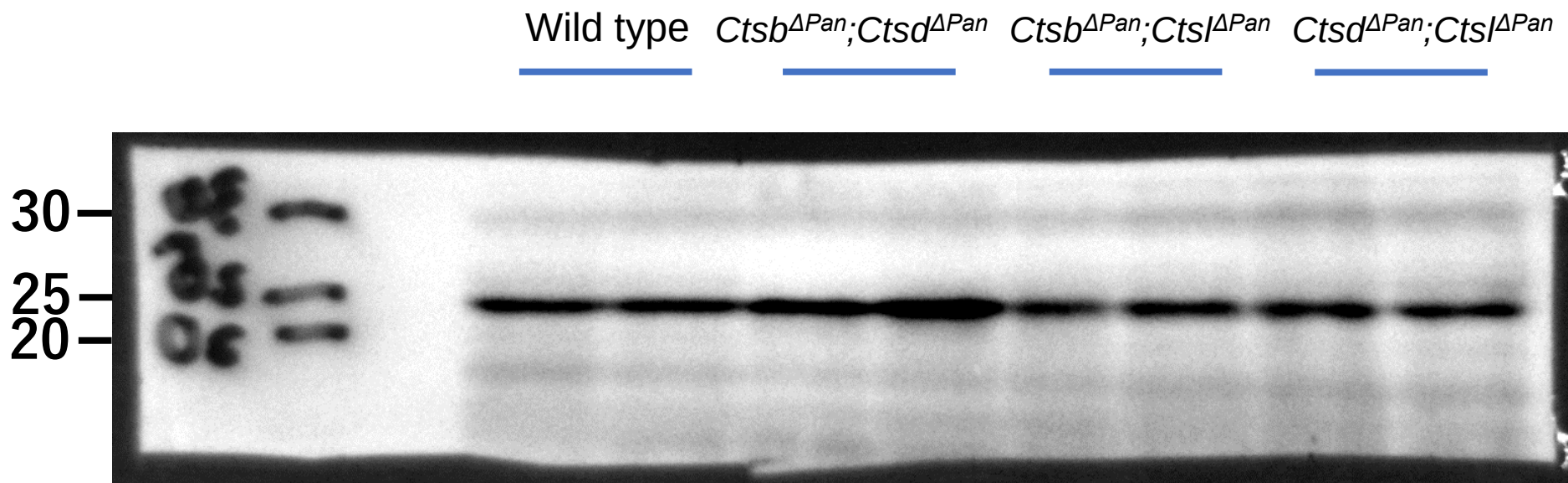


Figure 22

No significant difference



Primary antibody :
 Rab7 (Sigma R8779, 1:1000)
 Chemiluminescent reagent :
 Chemi-lumi One super (ex 5min)
 Gel : e-PAEL[®](5-20%)

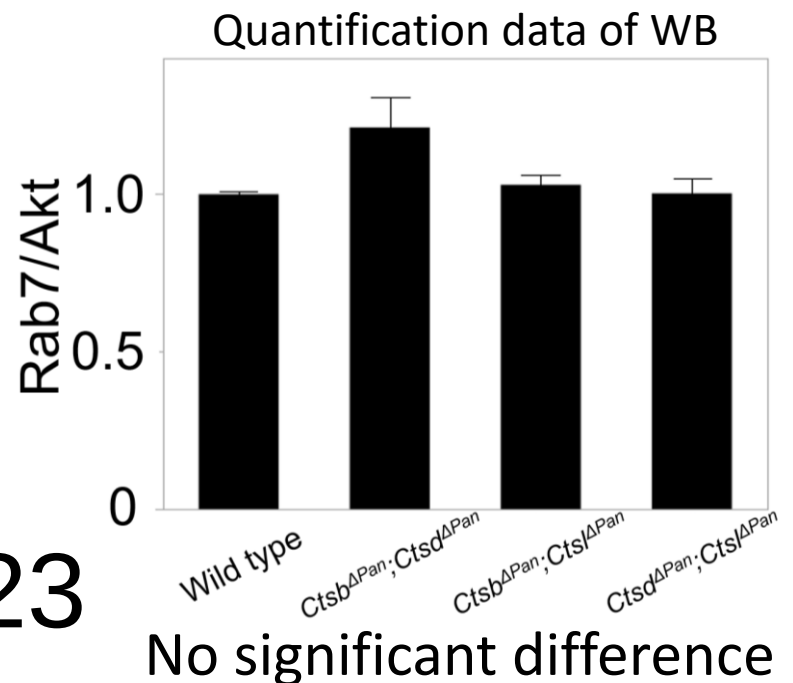
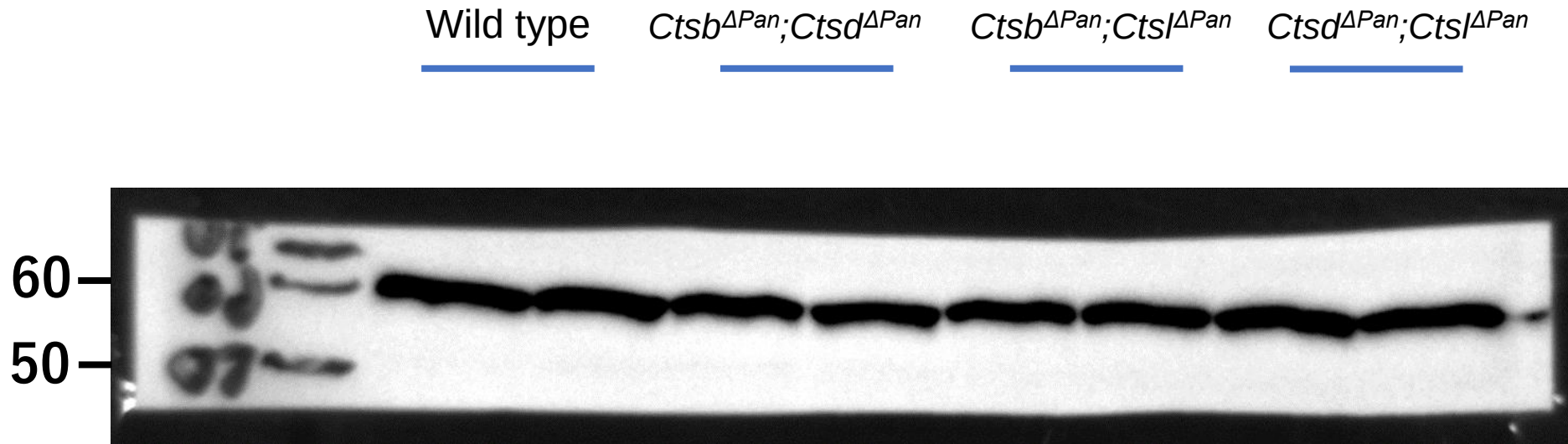


Figure 23



Primary antibody : Akt (CST 9272, 1:1000)

Chemiluminescent reagent : Chemi-lumi One L (ex 1min)

Gel : e-PAEL[®](5-20%)

Figure 24