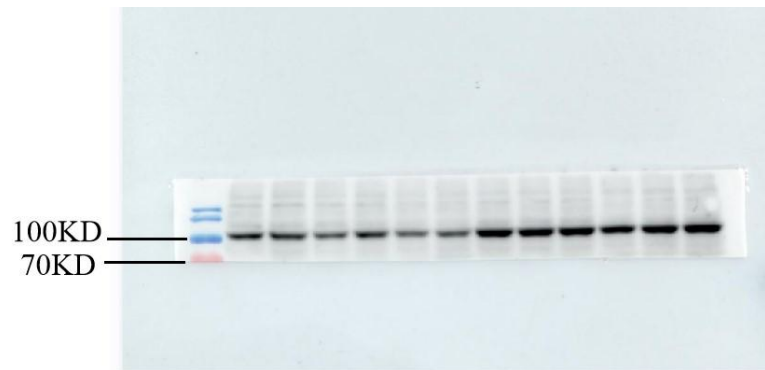


Supplementary materials: full image scans of western blot membranes

Membrane 1, From left to right: *Fpn1*^{flox/flox} Con 1, *Fpn1*^{flox/flox} Con 2, *Fpn1*^{flox/flox} Con 3, *Fpn1*^{flox/flox} Ips 1, *Fpn1*^{flox/flox} Ips 2, *Fpn1*^{flox/flox} Ips 3, *Fpn1*^{cdh5}-CKO Con 1, *Fpn1*^{cdh5}-CKO Con 2, *Fpn1*^{cdh5}-CKO Con3, *Fpn1*^{cdh5}-CKO Ips 1, *Fpn1*^{cdh5}-CKO Ips 2, *Fpn1*^{cdh5}-CKO Ips 3

Slice 1, probed with antibodies to **TfR1** (Figure 2D in Submission CDDIS-22-2860R, and Figure 2A in revised manuscript)



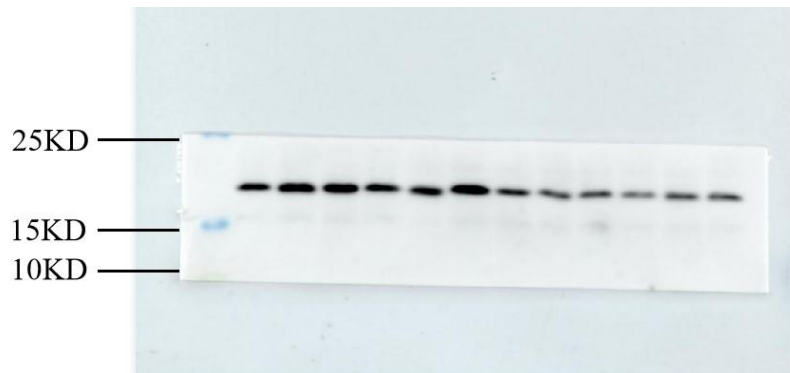
Slice 2, probed with antibodies to **β -actin** (Figures 2A and 2D in Submission CDDIS-22-2860R, and Figure 2A in revised manuscript)



Slice 3, probed with antibodies to **GAPDH** (not provided in manuscript)

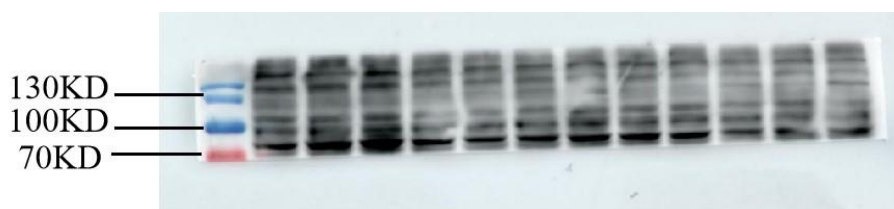


Slice 4, probed with antibodies to **FtL** (Figure 2A in Submission CDDIS-22-2860R, and Figure 2A in revised manuscript)



Membrane 5, From left to right: *Fpn1*^{flox/flox} Con 1, *Fpn1*^{flox/flox} Con 2, *Fpn1*^{flox/flox} Con 3, *Fpn1*^{flox/flox} Ips 1, *Fpn1*^{flox/flox} Ips 2, *Fpn1*^{flox/flox} Ips 3, *Fpn1*^{cdh5}-CKO Con 1, *Fpn1*^{cdh5}-CKO Con 2, *Fpn1*^{cdh5}-CKO Con3, *Fpn1*^{cdh5}-CKO Ips 1, *Fpn1*^{cdh5}-CKO Ips 2, *Fpn1*^{cdh5}-CKO Ips 3

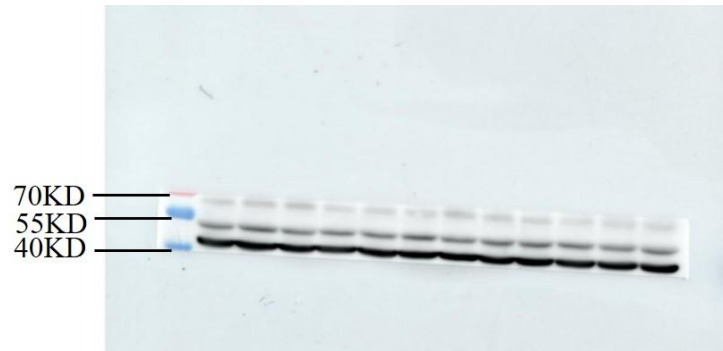
Slice 1, probed with antibodies to **4HNE** (not provided in manuscript)



Slice 2, probed with antibodies to **FPN1** (Figure 2D in Submission CDDIS-22-2860R, and Figure 2A in revised manuscript)



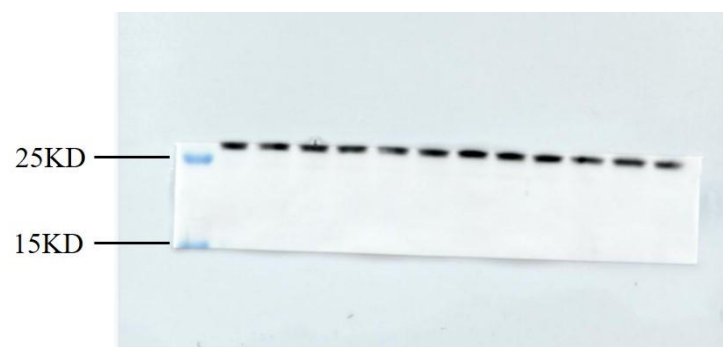
Slice 2, After eluting slice 2 with primary and secondary antibody (Sevenbio, beijing, China), the slice was blocked in 5% skim milk. The slice was then reprobed with antibodies to **β -actin** (Figures 2D and 4D in Submission CDDIS-22-2860R, and Figure 2A in revised manuscript)



Slice 3, probed with antibodies to **GAPDH** (not provided in submission CDDIS-22-2860R, and present in Figure 2E as a loading control of Bcl2 in revised manuscript)



Slice 4, probed with antibodies to **Bcl2** (Figure 4D in Submission CDDIS-22-2860R, and Figure 2E in revised manuscript)

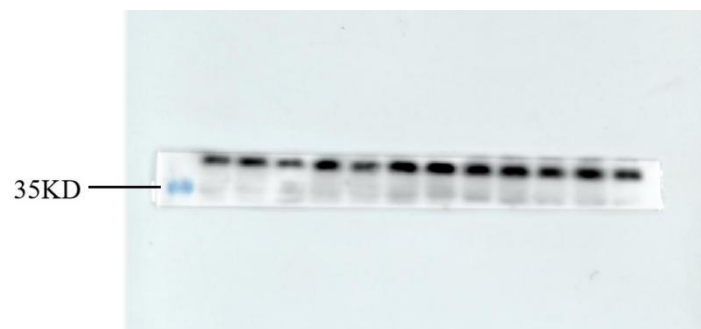


Membrane 14, From left to right: *Fpn1*^{flox/flox} Con 1, *Fpn1*^{flox/flox} Con 2, *Fpn1*^{flox/flox} Con 3, *Fpn1*^{flox/flox} Ips 1, *Fpn1*^{flox/flox} Ips 2, *Fpn1*^{flox/flox} Ips 3, *Fpn1*^{cdh5}-CKO Con 1, *Fpn1*^{cdh5}-CKO Con 2, *Fpn1*^{cdh5}-CKO Con3, *Fpn1*^{cdh5}-CKO Ips 1, *Fpn1*^{cdh5}-CKO Ips 2, *Fpn1*^{cdh5}-CKO Ips 3

Slice 1, probed with antibodies to **Total Nrf2** (Figure 3A in Submission CDDIS-22-2860R, and Figure 3A in revised manuscript)



Slice 2, probed with antibodies to **HO1** (Figure 3E in Submission CDDIS-22-2860R, and Figure 3A in revised manuscript)



Slice 2, After eluting slice 2 with primary and secondary antibody eluent (Sevenbio, Beijing, China), the slice was blocked in 5% skim milk. The slice was then reprobed with antibodies to **GAPDH** (Figures 3A, E and 4A in Submission CDDIS-22-2860R, and Figure 3A in revised manuscript).

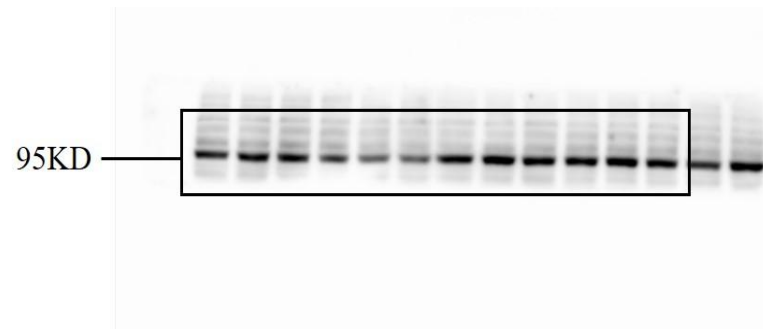


Slice 3, GPX4 (Figure 4A in Submission CDDIS-22-2860R, and Figure 3A in revised manuscript).

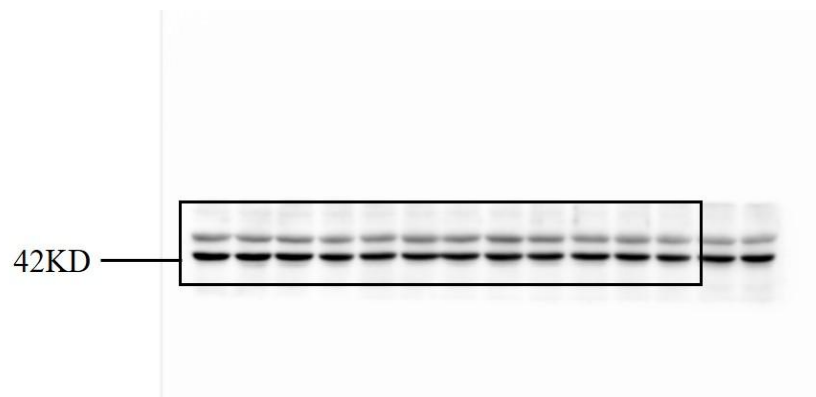


Membrane 26, From left to right: *Fpn1*^{flox/flox} Con 1, *Fpn1*^{flox/flox} Con 2, *Fpn1*^{flox/flox} Con 3, *Fpn1*^{flox/flox} Ips 1, *Fpn1*^{flox/flox} Ips 2, *Fpn1*^{flox/flox} Ips 3, *Fpn1*^{cdh5}-CKO Con 1, *Fpn1*^{cdh5}-CKO Con 2, *Fpn1*^{cdh5}-CKO Con3, *Fpn1*^{cdh5}-CKO Ips 1, *Fpn1*^{cdh5}-CKO Ips 2, *Fpn1*^{cdh5}-CKO Ips 3

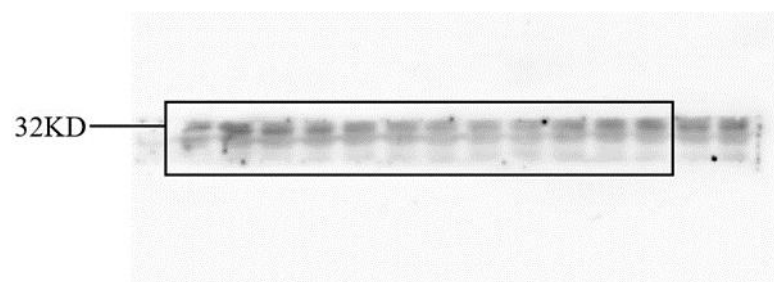
Slice 1, probed with antibodies to **TfR1** (Figure 6B in Submission CDDIS-22-2860R, and Figure 5B in revised manuscript)



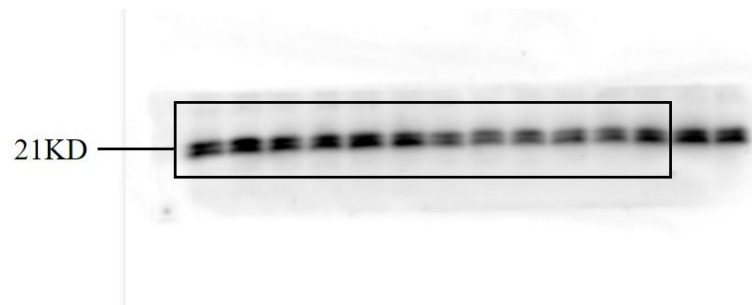
Slice 2, probed with antibodies to **β -actin** (Figure 6B in Submission CDDIS-22-2860R, and Figure 5B in revised manuscript)



Slice 3, probed with antibodies to **pre-hepcidin** (not provided in manuscript)

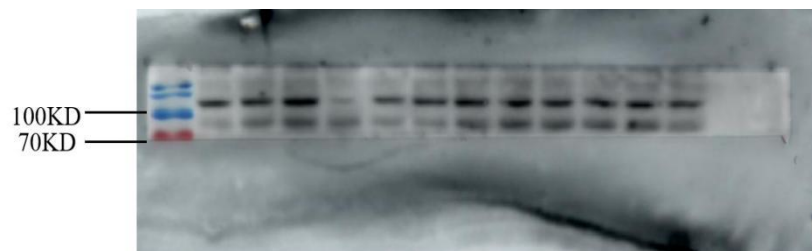


Slice 4, probed with antibodies to **FtH** (Figure 6B in Submission CDDIS-22-2860R, and Figure 5B in revised manuscript)

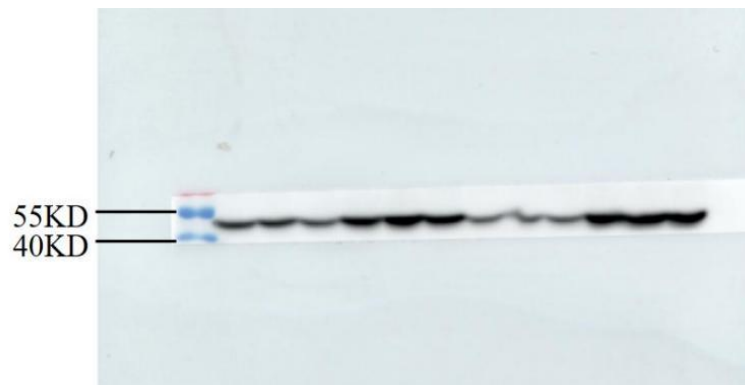


Membrane 30, From left to right: *Fpn1*^{flox/flox} Con 1, *Fpn1*^{flox/flox} Con 2, *Fpn1*^{flox/flox} Con 3, *Fpn1*^{flox/flox} Ips 1, *Fpn1*^{flox/flox} Ips 2, *Fpn1*^{flox/flox} Ips 3, *Fpn1*^{cdh5}-CKO Con 1, *Fpn1*^{cdh5}-CKO Con 2, *Fpn1*^{cdh5}-CKO Con3, *Fpn1*^{cdh5}-CKO Ips 1, *Fpn1*^{cdh5}-CKO Ips 2, *Fpn1*^{cdh5}-CKO Ips 3

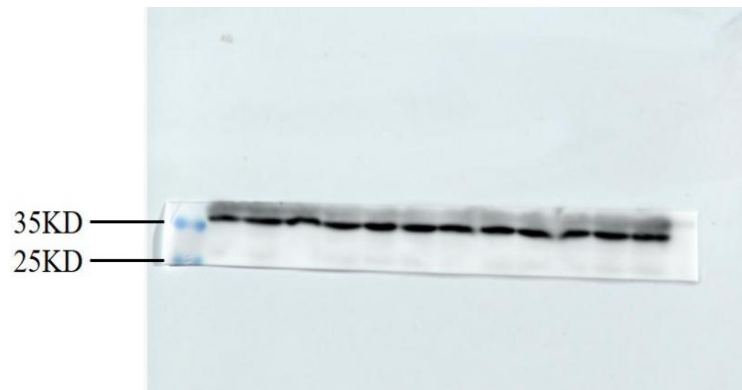
Slice 1, probed with antibodies to **Ki67** (not provided in Manuscript)



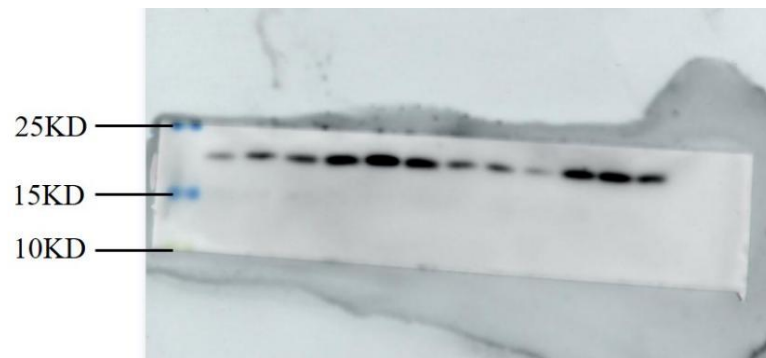
Slice 2, probed with antibodies to **GFAP** (Figure 9A in Submission CDDIS-22-2860R, and Figure 7B in revised manuscript)



Slice 3, probed with antibodies to **GAPDH** (Figures 8B and 9A in Submission CDDIS-22-2860R, and Figure 7B in revised manuscript)

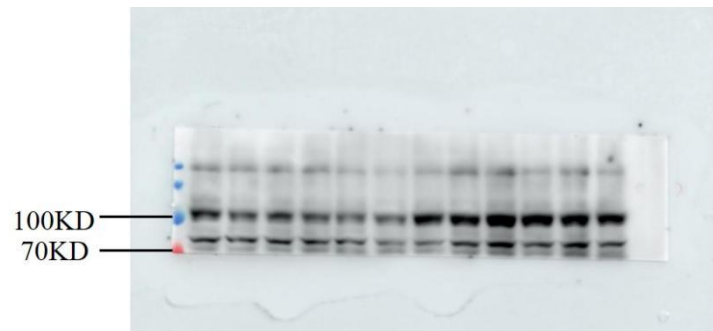


Slice 4, probed with antibodies to **FtL** (Figure 8B in Submission CDDIS-22-2860R, and Figure 7B in revised manuscript)

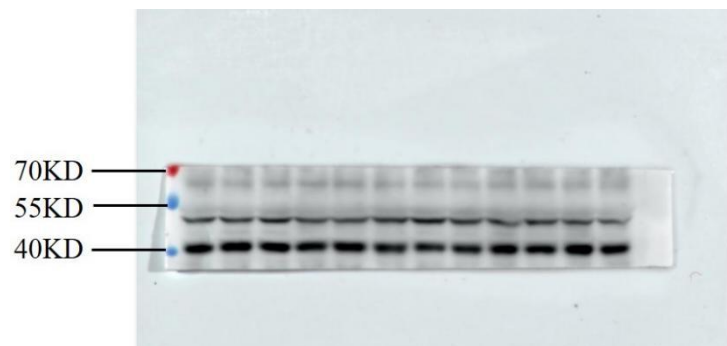


Membrane 35, From left to right: *FpnI*^{flox/flox} Con 1, *FpnI*^{flox/flox} Con 2, *FpnI*^{flox/flox} Con 3, *FpnI*^{flox/flox} Ips 1, *FpnI*^{flox/flox} Ips 2, *FpnI*^{flox/flox} Ips 3, *FpnI*^{cdh5}-CKO Con 1, *FpnI*^{cdh5}-CKO Con 2, *FpnI*^{cdh5}-CKO Con3, *FpnI*^{cdh5}-CKO Ips 1, *FpnI*^{cdh5}-CKO Ips 2, *FpnI*^{cdh5}-CKO Ips 3

Slice 1, probed with antibodies to **TfR1** (Figure 8B in Submission CDDIS-22-2860R, and Figure 7B in revised manuscript)



Slice 2, probed with antibodies to **FPN1** (Figure 8B in Submission CDDIS-22-2860R, and Figure 7B in revised manuscript)



Slice 3, probed with antibodies to **GAPDH** (Figure 8B in Submission CDDIS-22-2860R, and Figure 7B in revised manuscript)



Slice 4, probed with antibodies to **FtH** (not provided in manuscript)

