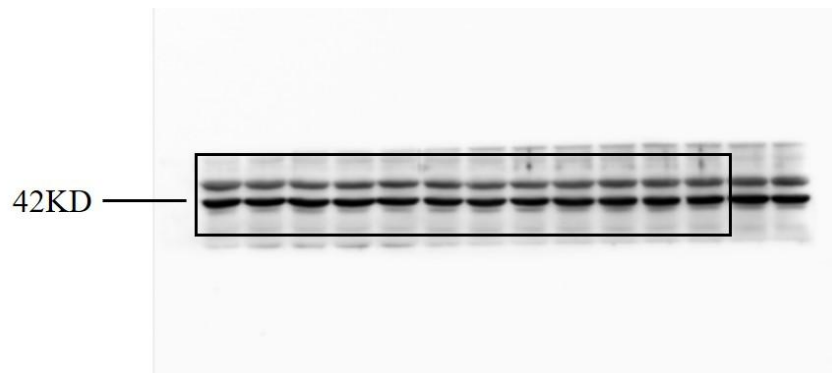


Figure 5

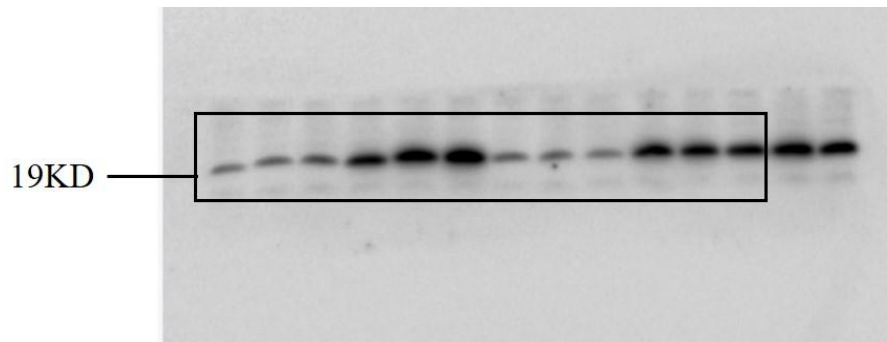
Cerebral cortex

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 Con 3, *Fpn1*^{cdh5}-CKO Ips 1, *Fpn1*^{cdh5}-CKO Ips 2, *Fpn1*^{cdh5}-CKO Ips 3, *Fpn1*^{flox/flox} Ips 4, *Fpn1*^{cdh5}-CKO Ips 4

Membrane 24, Slice 1, probed with antibodies to **β-actin**

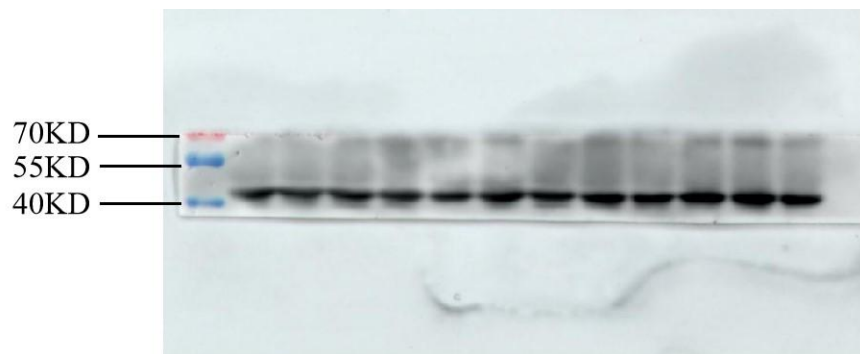


Membrane 24, Slice 2, probed with antibodies to **FtL**

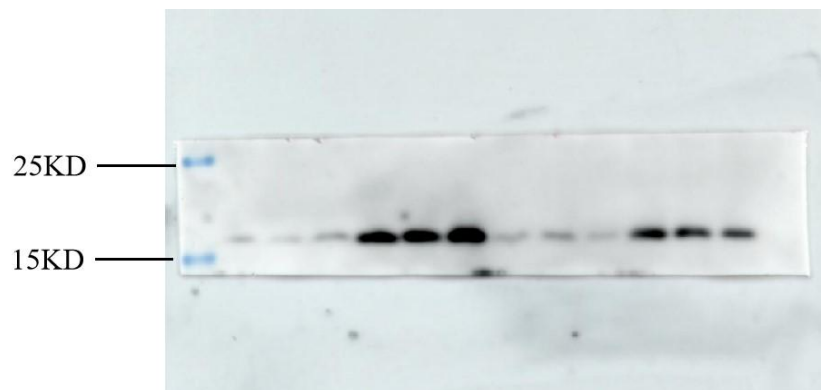


From left to right: *Fpn1*^{flox/flox} Con 5, *Fpn1*^{flox/flox} Con 6, *Fpn1*^{flox/flox} Con 7, *Fpn1*^{flox/flox} Ips 5, *Fpn1*^{flox/flox} Ips 6, *Fpn1*^{flox/flox} Ips 7, *Fpn1*^{cdh5}-CKO Con 5, *Fpn1*^{cdh5}-CKO Con 6, *Fpn1*^{cdh5}-CKO Con 7, *Fpn1*^{cdh5}-CKO Ips 5, *Fpn1*^{cdh5}-CKO Ips 6, *Fpn1*^{cdh5}-CKO Ips 7

Membrane 25, Slice 1, probed with antibodies to **β-actin**

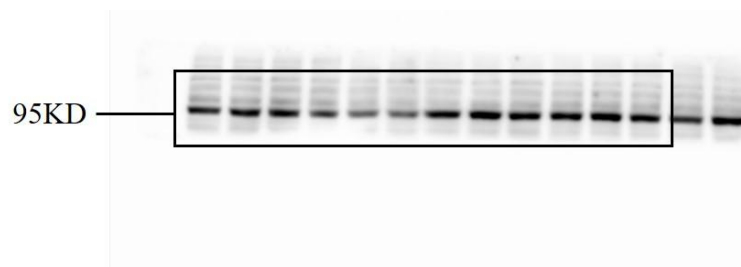


Membrane 25, Slice 2, probed with antibodies to **FtL**

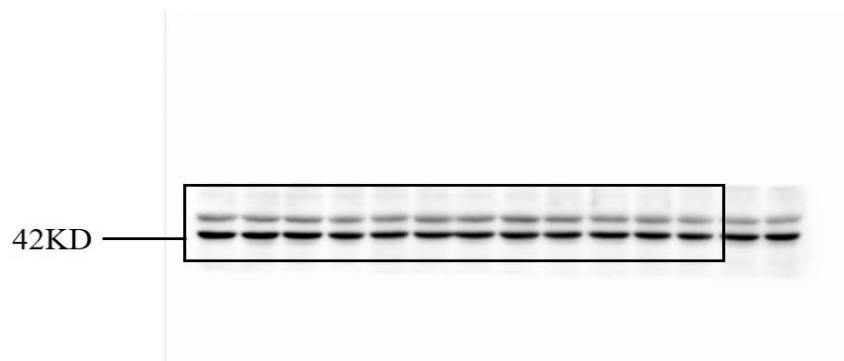


From left to right: *Fpn1*^{flox/flox} Con 1, *Fpn1*^{flox/flox} Con 2, *Fpn1*^{flox/flox} Con 3, *Fpn1*^{flox/flox} Ips 1, *Fpn1*^{flox/flox} Ips 2, *Fpn1*^{flox/flox} Ips 3, *Fpn1*^{cdh5}-CKO Con 1, *Fpn1*^{cdh5}-CKO Con 2, *Fpn1*^{cdh5}-CKO Con 3, *Fpn1*^{cdh5}-CKO Ips 1, *Fpn1*^{cdh5}-CKO Ips 2, *Fpn1*^{cdh5}-CKO Ips 3, *Fpn1*^{flox/flox} Ips 4, *Fpn1*^{cdh5}-CKO Ips 4

Membrane 26, Slice 1, probed with antibodies to **TfR1**



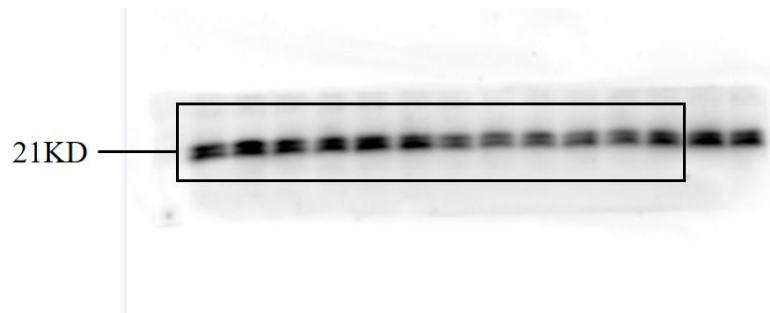
Membrane 26, Slice 2, probed with antibodies to **β-actin**



Membrane 26, Slice 3, probed with antibodies to **pre-hepcidin**

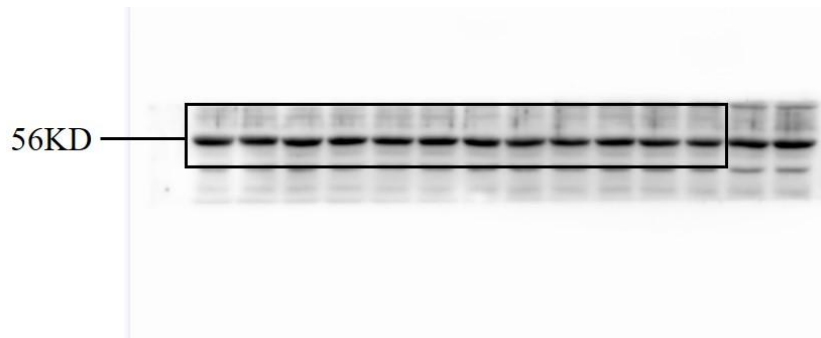


Membrane 26, Slice 4, probed with antibodies to **FtH**

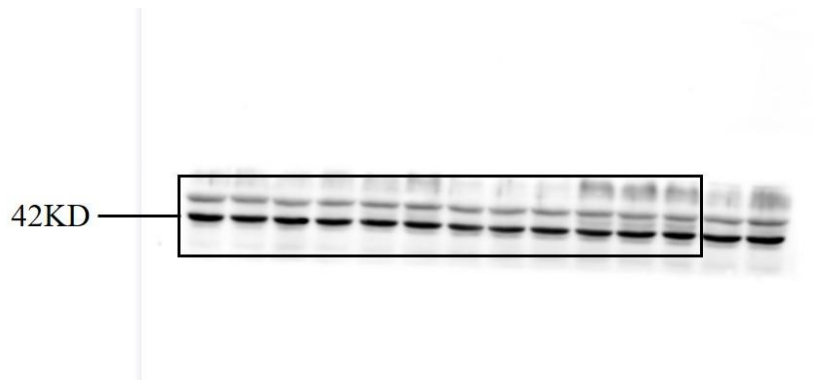


From left to right: *Fpn1*^{flox/flox} Con 1, *Fpn1*^{flox/flox} Con 2, *Fpn1*^{flox/flox} Con 3, *Fpn1*^{flox/flox} Ips 1, *Fpn1*^{flox/flox} Ips 2, *Fpn1*^{flox/flox} Ips 3, *Fpn1*^{cdh5}-CKO Con 1, *Fpn1*^{cdh5}-CKO Con 2, *Fpn1*^{cdh5}-CKO Con 3, *Fpn1*^{cdh5}-CKO Ips 1, *Fpn1*^{cdh5}-CKO Ips 2, *Fpn1*^{cdh5}-CKO Ips 3, *Fpn1*^{flox/flox} Ips 4, *Fpn1*^{cdh5}-CKO Ips 4

Membrane 27, Slice 1, probed with antibodies to **FPN1**

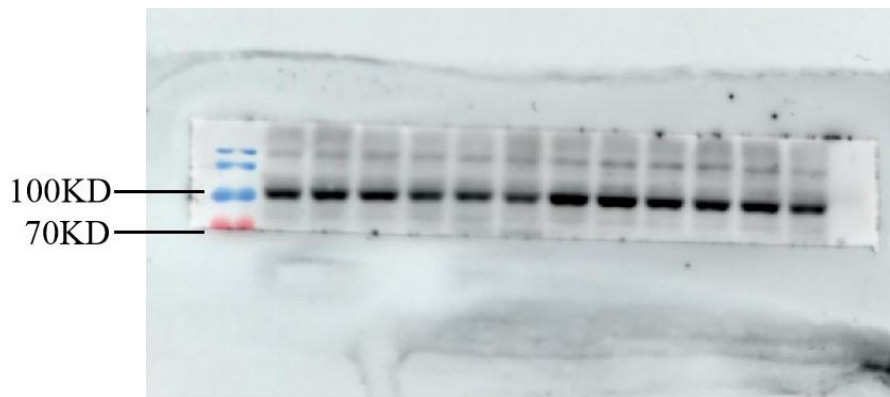


Membrane 27, Slice 2, probed with antibodies to **β-actin**

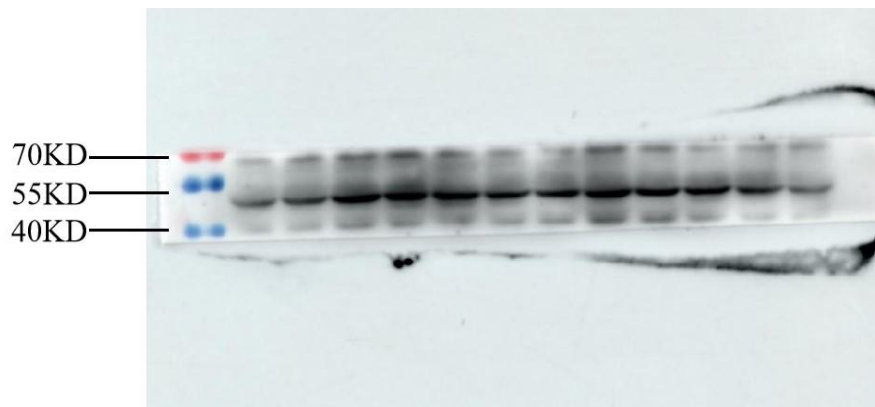


From left to right: *Fpn1*^{flox/flox} Con 5, *Fpn1*^{flox/flox} Con 6, *Fpn1*^{flox/flox} Con 7, *Fpn1*^{flox/flox} Ips 5, *Fpn1*^{flox/flox} Ips 6, *Fpn1*^{flox/flox} Ips 7, *Fpn1*^{cdh5}-CKO Con 5, *Fpn1*^{cdh5}-CKO Con 6, *Fpn1*^{cdh5}-CKO Con 7, *Fpn1*^{cdh5}-CKO Ips 5, *Fpn1*^{cdh5}-CKO Ips 6, *Fpn1*^{cdh5}-CKO Ips 7

Membrane 28, Slice 1, probed with antibodies to **TfR1**



Membrane 28, Slice 2, probed with antibodies to **FPN1**

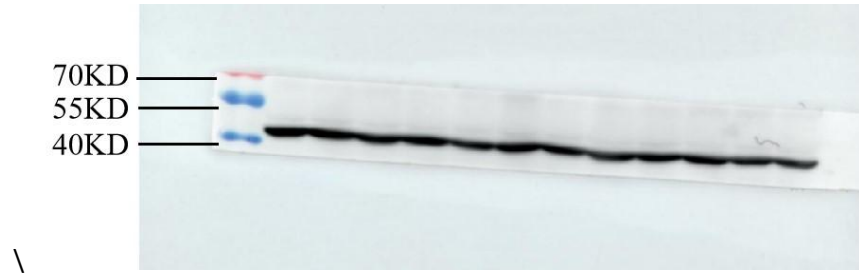


Membrane 28, Slice 2, probed with antibodies to **β-actin**



From left to right: *Fpn1*^{flox/flox} Con 5, *Fpn1*^{flox/flox} Con 6, *Fpn1*^{flox/flox} Con 7, *Fpn1*^{flox/flox} Ips 5, *Fpn1*^{flox/flox} Ips 6, *Fpn1*^{flox/flox} Ips 7, *Fpn1*^{cdh5}-CKO Con 5, *Fpn1*^{cdh5}-CKO Con 6, *Fpn1*^{cdh5}-CKO Con 7, *Fpn1*^{cdh5}-CKO Ips 5, *Fpn1*^{cdh5}-CKO Ips 6, *Fpn1*^{cdh5}-CKO Ips 7

Membrane 29, Slice 1, probed with antibodies to **β-actin**



Membrane 29, Slice 2, probed with antibodies to **FtH**

