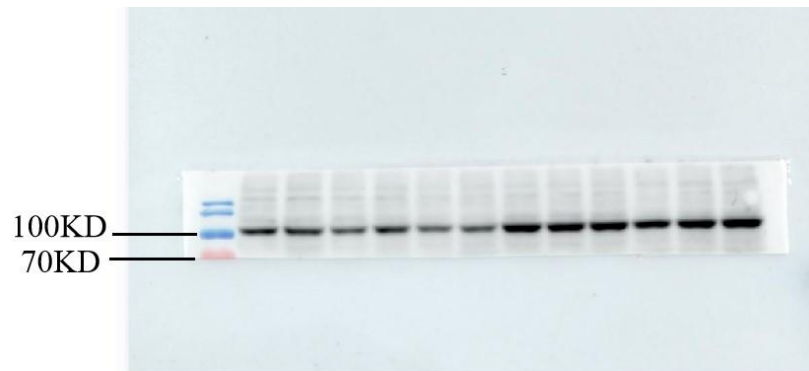


Figure 2

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 Con3, *Fpn1*^{cdh5}-CKO Ips 1, *Fpn1*^{cdh5}-CKO Ips 2, *Fpn1*^{cdh5}-CKO Ips 3

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



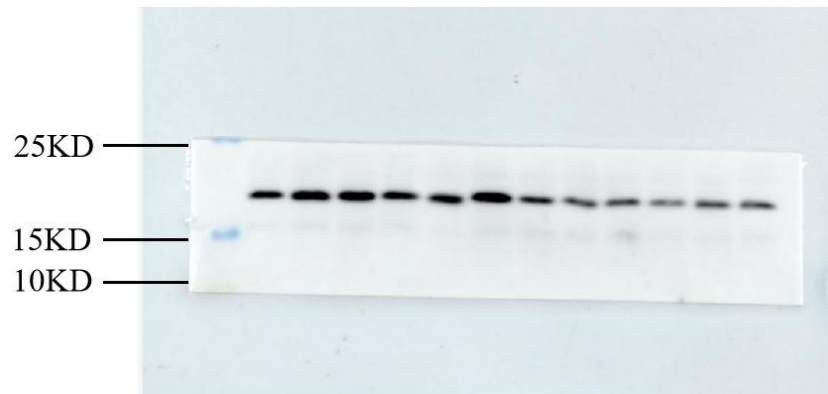
Membrane 1, Slice 2, probed with antibodies to **β-actin**



Membrane 1, Slice 3, probed with antibodies to **GAPDH**

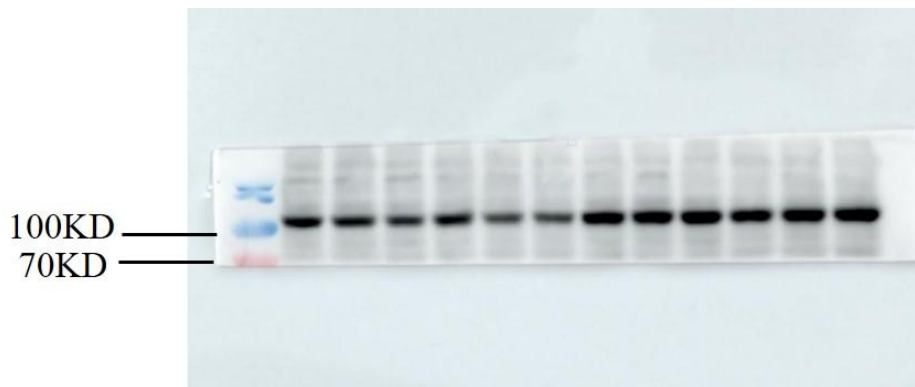


Membrane 1, Slice 4, probed with antibodies to **FtL**



From left to right: *Fpn1*^{flox/flox} Con 4, *Fpn1*^{flox/flox} Con 5, *Fpn1*^{flox/flox} Con 6, *Fpn1*^{flox/flox} Ips 4, *Fpn1*^{flox/flox} Ips 5, *Fpn1*^{flox/flox} Ips 6, *Fpn1*^{cdh5}-CKO Con 4, *Fpn1*^{cdh5}-CKO Con 5, *Fpn1*^{cdh5}-CKO Con 6, *Fpn1*^{cdh5}-CKO Ips 4, *Fpn1*^{cdh5}-CKO Ips 5, *Fpn1*^{cdh5}-CKO Ips 6

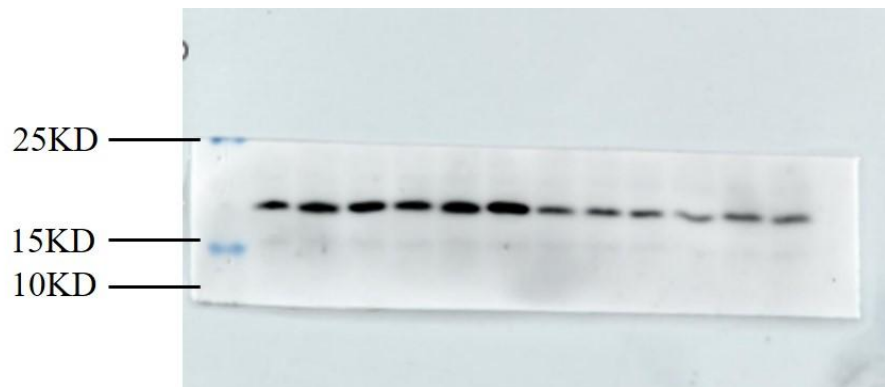
Membrane 2, Slice 1, probed with antibodies to **TfR1**



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

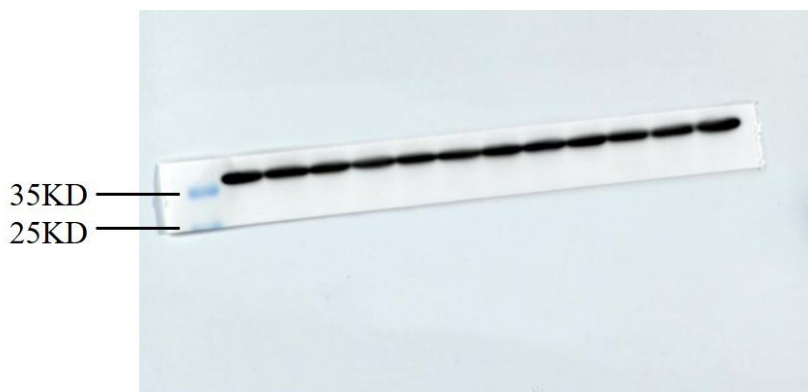


Membrane 2, Slice 3, probed with antibodies to **FtL**



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 Con3, *Fpn1*^{cdh5}-CKO Ips 1, *Fpn1*^{cdh5}-CKO Ips 2, *Fpn1*^{cdh5}-CKO Ips 3

Membrane 3, Slice 1, probed with antibodies to **GAPDH**

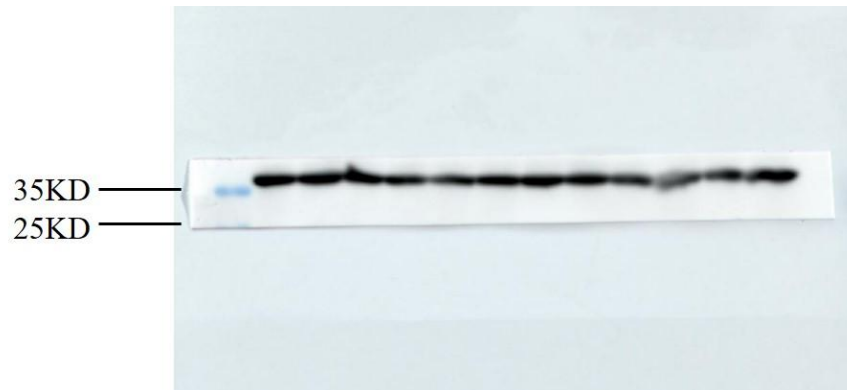


Membrane 3, Slice 2, probed with antibodies to **FtH**

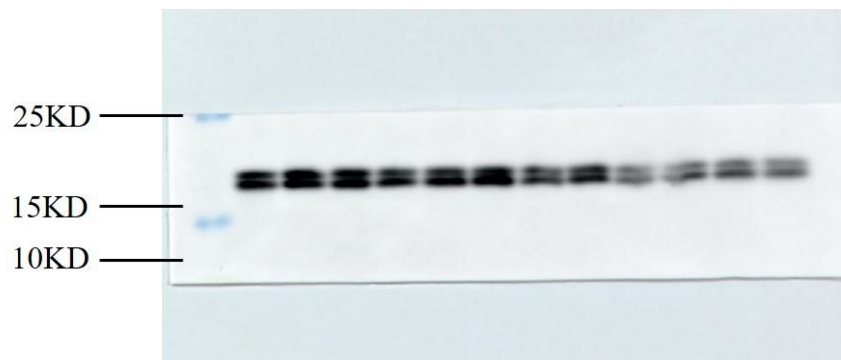


From left to right: *Fpn1*^{flox/flox} Con 4, *Fpn1*^{flox/flox} Con 5, *Fpn1*^{flox/flox} Con 6, *Fpn1*^{flox/flox} Ips 4, *Fpn1*^{flox/flox} Ips 5, *Fpn1*^{flox/flox} Ips 6, *Fpn1*^{cdh5}-CKO Con 4, *Fpn1*^{cdh5}-CKO Con 5, *Fpn1*^{cdh5}-CKO Con 6, *Fpn1*^{cdh5}-CKO Ips 4, *Fpn1*^{cdh5}-CKO Ips 5, *Fpn1*^{cdh5}-CKO Ips 6

Membrane 4, Slice 1, probed with antibodies to **GAPDH**



Membrane 4, Slice 2, 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 Con3, *Fpn1*^{cdh5}-CKO Ips 1, *Fpn1*^{cdh5}-CKO Ips 2, *Fpn1*^{cdh5}-CKO Ips 3

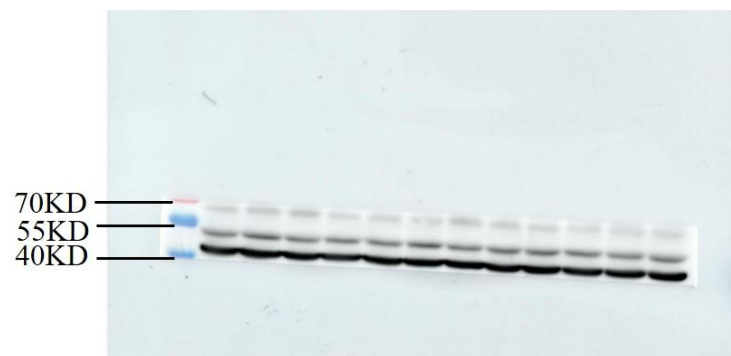
Membrane 5, Slice 1, probed with antibodies to **4HNE**



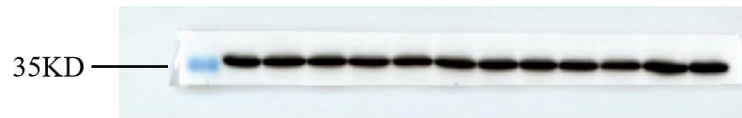
Membrane 5, Slice 2, probed with antibodies to **FPN1**



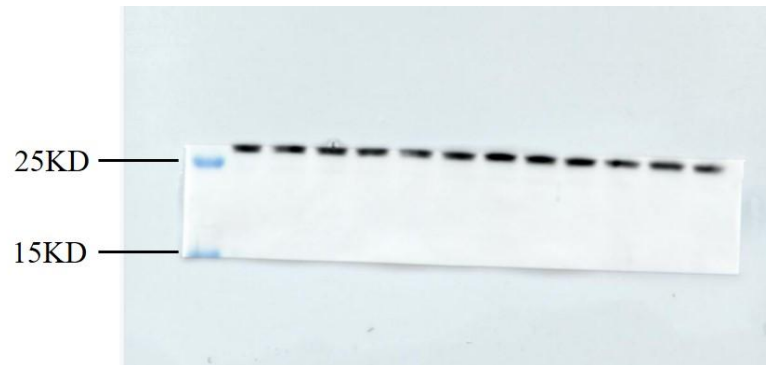
Membrane 5, Slice 2, probed with antibodies to **β-actin**



Membrane 5, Slice 3, probed with antibodies to **GAPDH**

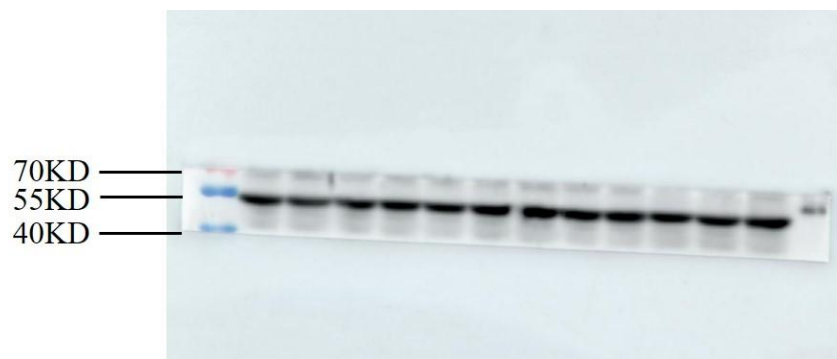


Membrane 5, Slice 4, probed with antibodies to **Bcl2**

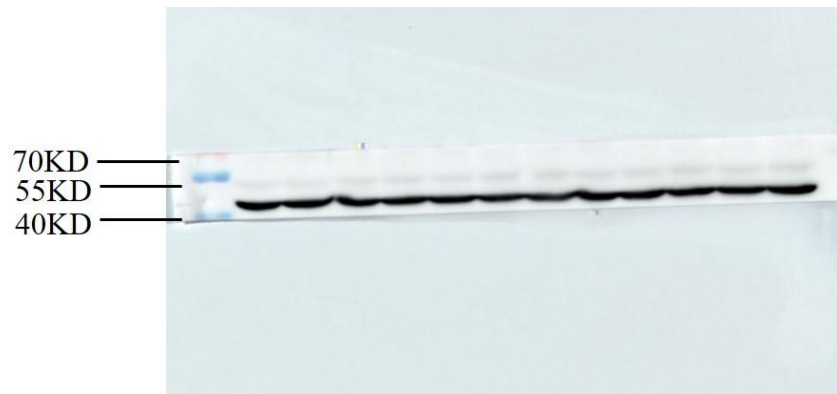


From left to right: *Fpn1*^{flox/flox} Con 4, *Fpn1*^{flox/flox} Con 5, *Fpn1*^{flox/flox} Con 6, *Fpn1*^{flox/flox} Ips 4, *Fpn1*^{flox/flox} Ips 5, *Fpn1*^{flox/flox} Ips 6, *Fpn1*^{cdh5}-CKO Con 4, *Fpn1*^{cdh5}-CKO Con 5, *Fpn1*^{cdh5}-CKO Con 6, *Fpn1*^{cdh5}-CKO Ips 4, *Fpn1*^{cdh5}-CKO Ips 5, *Fpn1*^{cdh5}-CKO Ips 6

Membrane 6, Slice 1, probed with antibodies to **FPN1**



Membrane 6, Slice 2, probed with antibodies to **β -actin**

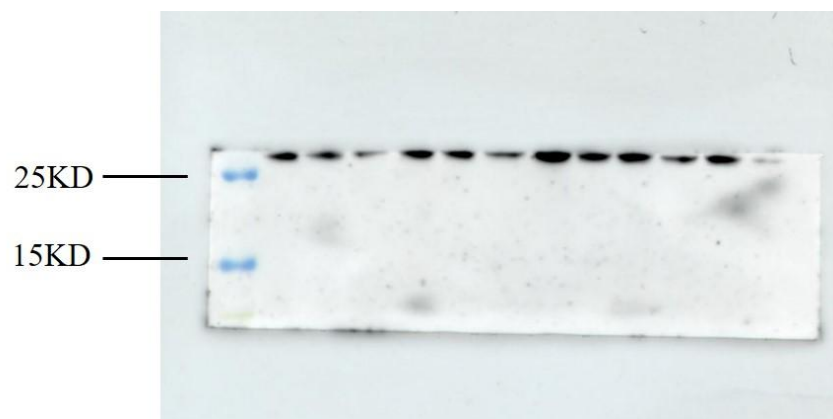


From left to right: *Fpn1*^{flox/flox} Con 4, *Fpn1*^{flox/flox} Con 5, *Fpn1*^{flox/flox} Con 6, *Fpn1*^{flox/flox} Ips 4, *Fpn1*^{flox/flox} Ips 5, *Fpn1*^{flox/flox} Ips 6, *Fpn1*^{cdh5}-CKO Con 4, *Fpn1*^{cdh5}-CKO Con 5, *Fpn1*^{cdh5}-CKO Con 6, *Fpn1*^{cdh5}-CKO Ips 4, *Fpn1*^{cdh5}-CKO Ips 5, *Fpn1*^{cdh5}-CKO Ips 6

Membrane 7, Slice 1, probed with antibodies to **GAPDH**

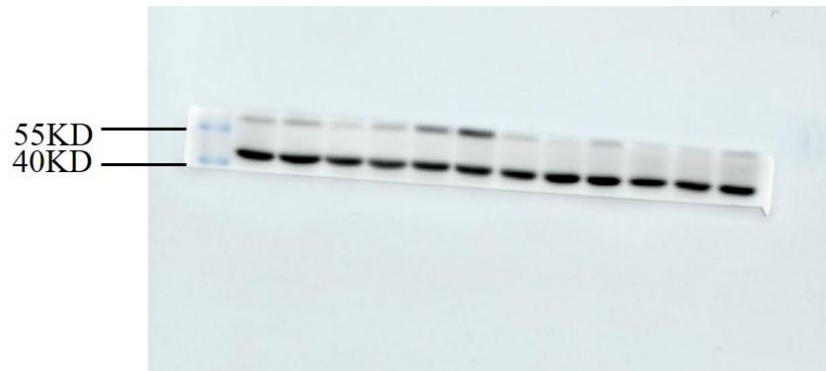


Membrane 7, Slice 2, probed with antibodies to **Bcl2**



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

Membrane 8, Slice 1, probed with antibodies to **β-actin**

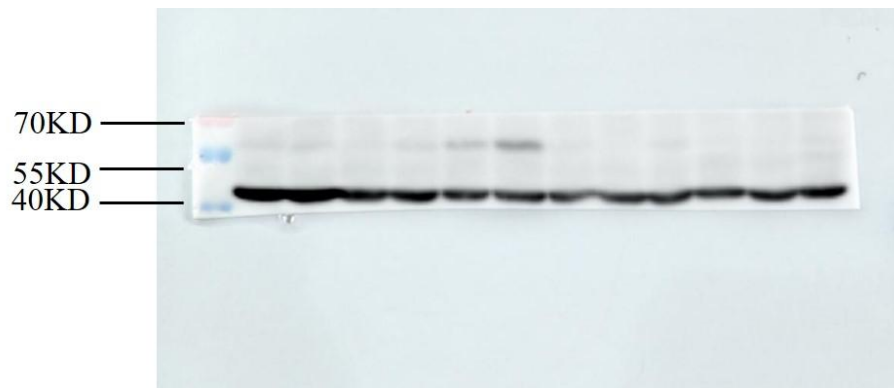


Membrane 8, Slice 2, probed with antibodies to **Bax**



From left to right: *Fpn1*^{flox/flox} Con 4, *Fpn1*^{flox/flox} Con 5, *Fpn1*^{flox/flox} Con 6, *Fpn1*^{flox/flox} Ips 4, *Fpn1*^{flox/flox} Ips 5, *Fpn1*^{flox/flox} Ips 6, *Fpn1*^{cdh5}-CKO Con 4, *Fpn1*^{cdh5}-CKO Con 5, *Fpn1*^{cdh5}-CKO Con 6, *Fpn1*^{cdh5}-CKO Ips 4, *Fpn1*^{cdh5}-CKO Ips 5, *Fpn1*^{cdh5}-CKO Ips 6

Membrane 9, Slice 1, probed with antibodies to **β-actin**

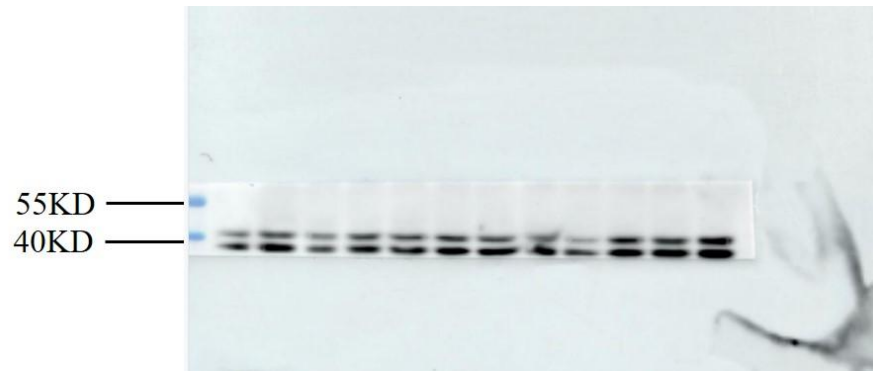


Membrane 9, Slice 2, probed with antibodies to **Bax**



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

Membrane 10, Slice 1, probed with antibodies to **p-Erk 1/2**



Membrane 10, Slice 1, probed with antibodies to **Erk 1/2**



Membrane 10, Slice 2, probed with antibodies to **GAPDH**

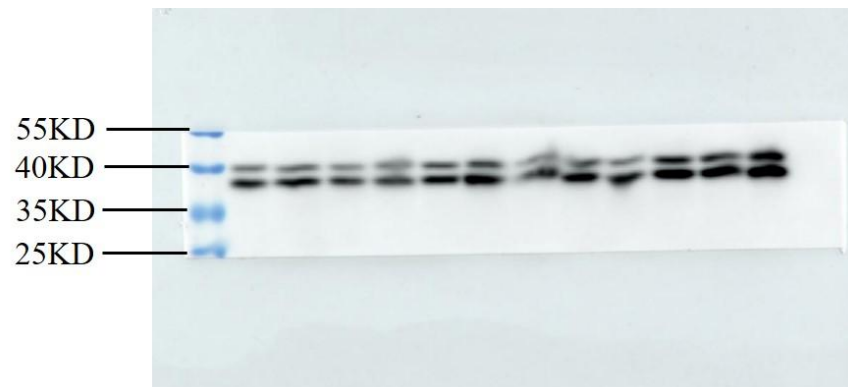


From left to right: *Fpn1*^{flox/flox} Con 4, *Fpn1*^{flox/flox} Con 5, *Fpn1*^{flox/flox} Con 6, *Fpn1*^{flox/flox} Ips 4, *Fpn1*^{flox/flox} Ips 5, *Fpn1*^{flox/flox} Ips 6, *Fpn1*^{cdh5}-CKO Con 4, *Fpn1*^{cdh5}-CKO Con 5, *Fpn1*^{cdh5}-CKO Con 6, *Fpn1*^{cdh5}-CKO Ips 4, *Fpn1*^{cdh5}-CKO Ips 5, *Fpn1*^{cdh5}-CKO Ips 6

Membrane 11, Slice 1, probed with antibodies to **p-Erk 1/2**



Membrane 11, Slice 1, probed with antibodies to **Erk 1/2**



Membrane 11, Slice 1, probed with antibodies to **GAPDH**

