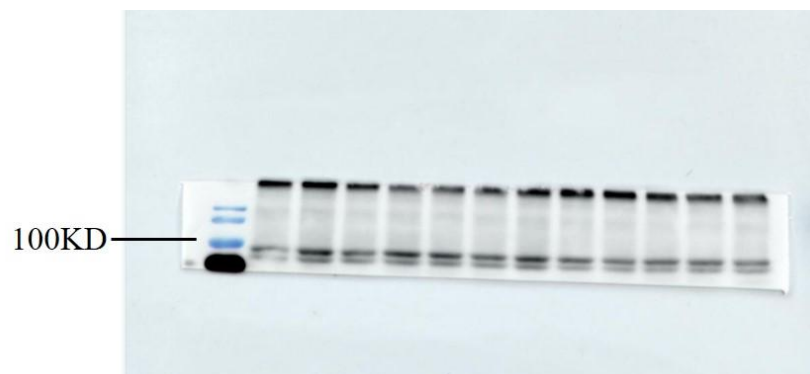


Figure 3

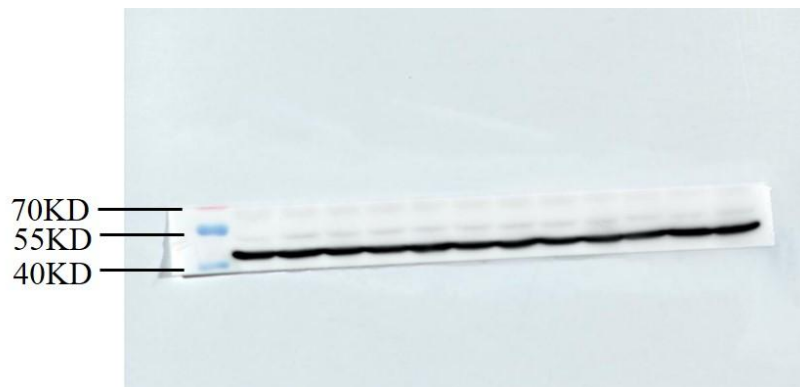
Cerebral cortex

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 12, Slice 1, probed with antibodies to **ACSL4**

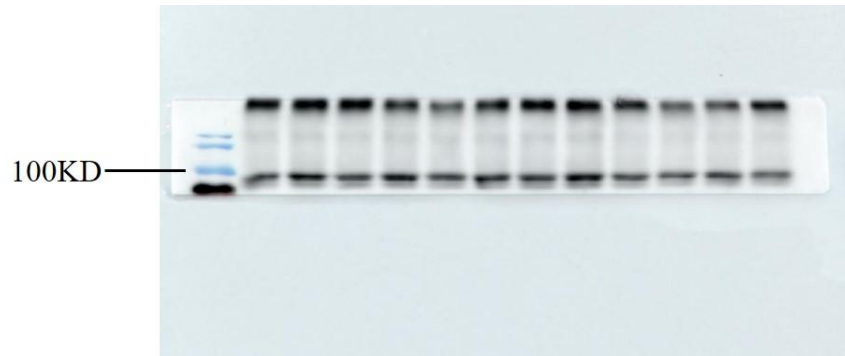


Membrane 12, Slice 2, probed with antibodies to **β-actin**

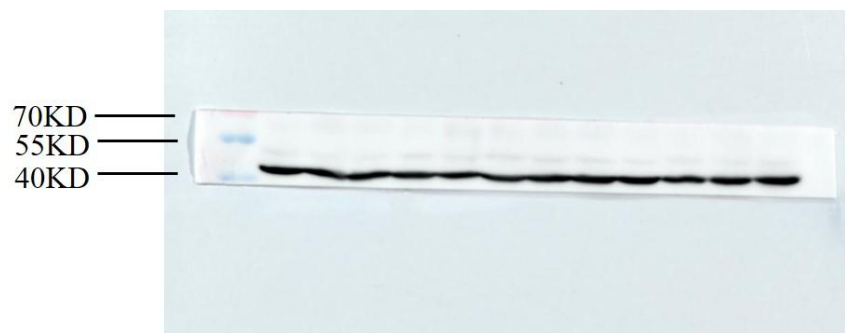


From left to right: *Fpn1*^{flox/flox} Con 4, *Fpn1*^{flox/flox} Con 5, *Fpn1*^{flox/flox} Con 6, *Fpn1*^{flox/flox} Ips 4, *Fpn1*^{flox/flox} Ips 5, *Fpn1*^{flox/flox} Ips 6, *Fpn1*^{cdh5}-CKO Con 4, *Fpn1*^{cdh5}-CKO Con 5, *Fpn1*^{cdh5}-CKO Con 6, *Fpn1*^{cdh5}-CKO Ips 4, *Fpn1*^{cdh5}-CKO Ips 5,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

Membrane 13, Slice 1, probed with antibodies to ACSL4

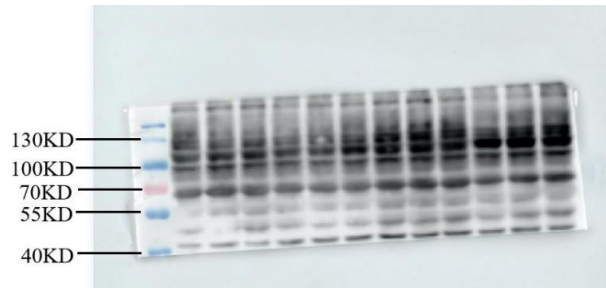


Membrane 13, Slice 2, probed with antibodies to β -actin



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 14, Slice 1, probed with antibodies to **Total Nrf2**



Membrane 14, Slice 2, probed with antibodies to **HO1**



Membrane 14, Slice 2, probed with antibodies to **GAPDH**

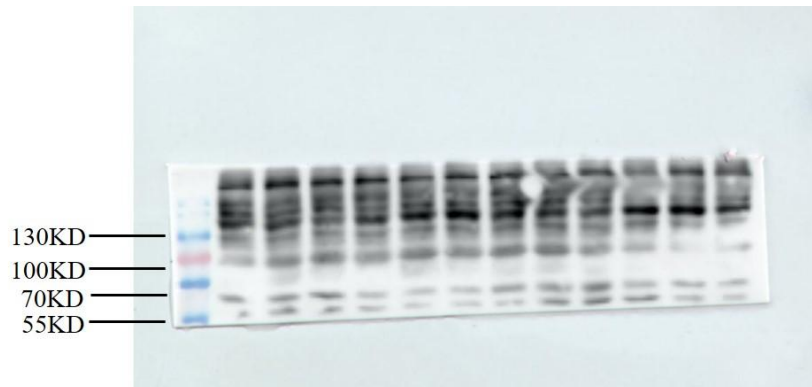


Membrane 14, Slice 3, probed with antibodies to **GPX4**

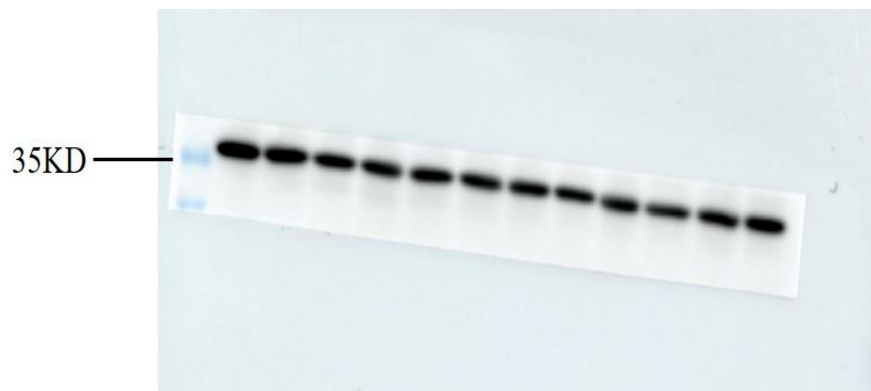


From left to right: *Fpn1*^{flox/flox} Con 4, *Fpn1*^{flox/flox} Con 5, *Fpn1*^{flox/flox} Con 6, *Fpn1*^{flox/flox} Ips 4, *Fpn1*^{flox/flox} Ips 5, *Fpn1*^{flox/flox} Ips 6, *Fpn1*^{cdh5}-CKO Con 4, *Fpn1*^{cdh5}-CKO Con 5, *Fpn1*^{cdh5}-CKO Con 6, *Fpn1*^{cdh5}-CKO Ips 4, *Fpn1*^{cdh5}-CKO Ips 5,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

Membrane 15, Slice 1, probed with antibodies to **Total Nrf2**



Membrane 15, 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 16, Slice 1, probed with antibodies to **HO1**



Membrane 16, Slice 1, probed with antibodies to **GAPDH**

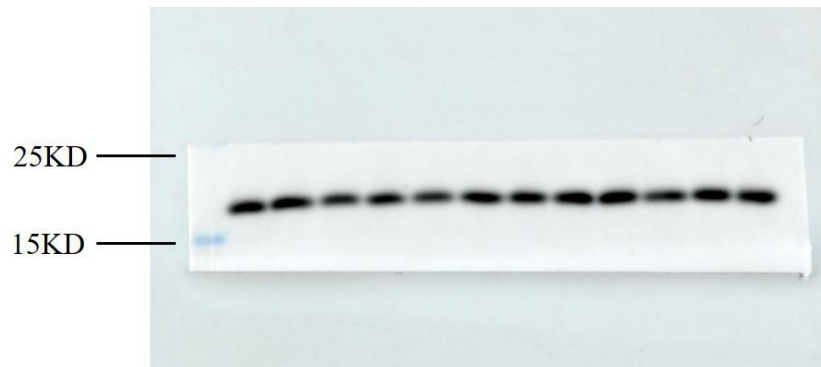


From left to right: *Fpn1*^{flox/flox} Con 4, *Fpn1*^{flox/flox} Con 5, *Fpn1*^{flox/flox} Con 6, *Fpn1*^{flox/flox} Ips 4, *Fpn1*^{flox/flox} Ips 5, *Fpn1*^{flox/flox} Ips 6, *Fpn1*^{cdh5}-CKO Con 4, *Fpn1*^{cdh5}-CKO Con 5, *Fpn1*^{cdh5}-CKO Con 6, *Fpn1*^{cdh5}-CKO Ips 4, *Fpn1*^{cdh5}-CKO Ips 5,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

Membrane 17, Slice 1, probed with antibodies to **GAPDH**

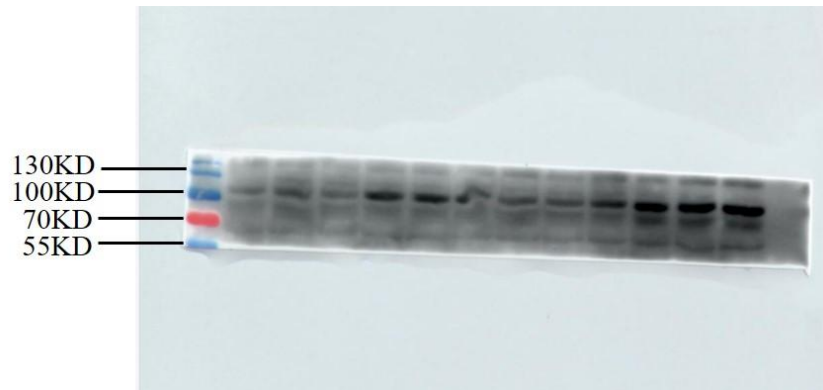


Membrane 17, Slice 2, probed with antibodies to **GPX4**



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 18, Slice 1, probed with antibodies to **Cytoplasmic Nrf2**

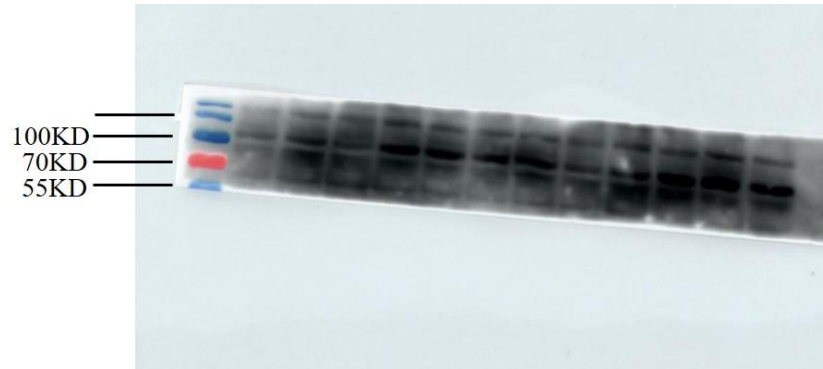


Membrane 18, Slice 2, probed with antibodies to **β -actin**

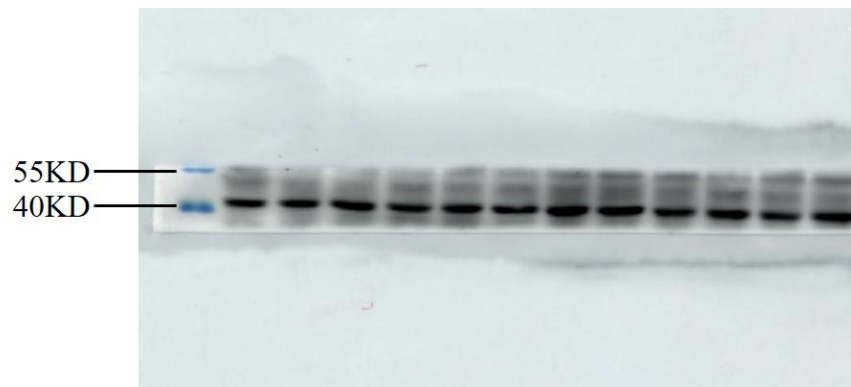


From left to right: *Fpn1*^{flox/flox} Con 4, *Fpn1*^{flox/flox} Con 5, *Fpn1*^{flox/flox} Con 6, *Fpn1*^{flox/flox} Ips 4, *Fpn1*^{flox/flox} Ips 5, *Fpn1*^{flox/flox} Ips 6, *Fpn1*^{cdh5}-CKO Con 4, *Fpn1*^{cdh5}-CKO Con 5, *Fpn1*^{cdh5}-CKO Con 6, *Fpn1*^{cdh5}-CKO Ips 4, *Fpn1*^{cdh5}-CKO Ips 5,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

Membrane 19, Slice 1, probed with antibodies to **Cytoplasmic Nrf2**

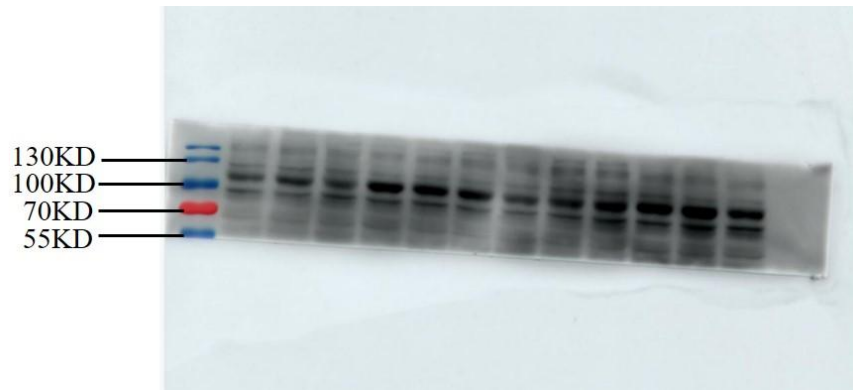


Membrane 19, Slice 2, probed with antibodies to **β -actin**

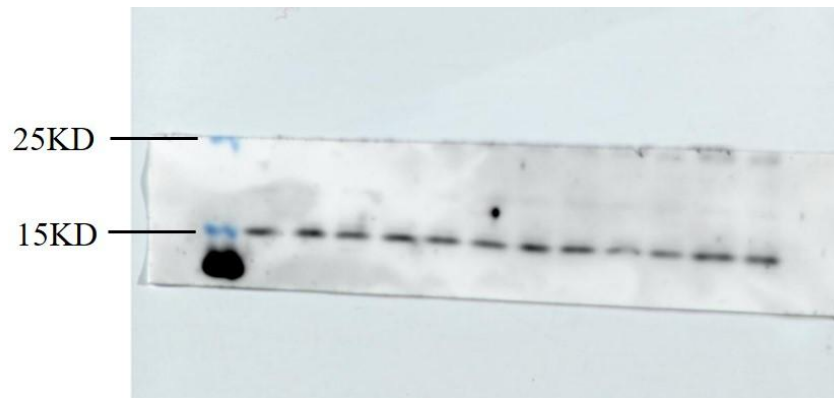


From left to right: *Fpn1*^{flox/flox} Con 1, *Fpn1*^{flox/flox} Con 2, *Fpn1*^{flox/flox} Con 3, *Fpn1*^{flox/flox} Ips 1, *Fpn1*^{flox/flox} Ips 2, *Fpn1*^{flox/flox} Ips 3, *Fpn1*^{cdh5}-CKO Con 1, *Fpn1*^{cdh5}-CKO Con 2, *Fpn1*^{cdh5}-CKO Con3, *Fpn1*^{cdh5}-CKO Ips 1, *Fpn1*^{cdh5}-CKO Ips 2, *Fpn1*^{cdh5}-CKO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

Membrane 20, Slice 1, probed with antibodies to **Nuclear Nrf2**

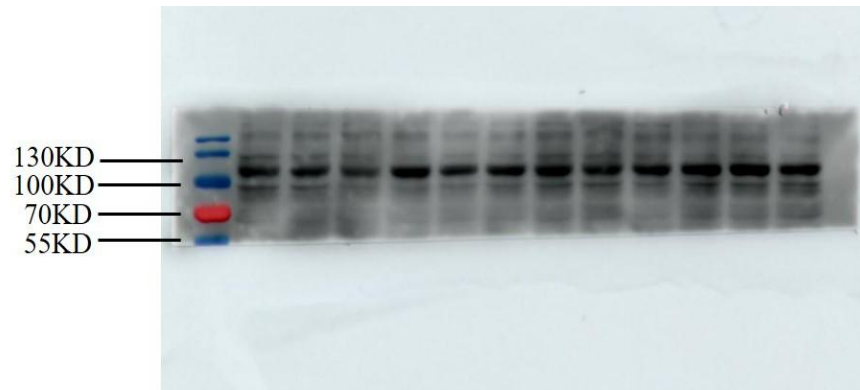


Membrane 20, Slice 2, probed with antibodies to **Histone**



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 21, Slice 1, probed with antibodies to **Nuclear Nrf2**

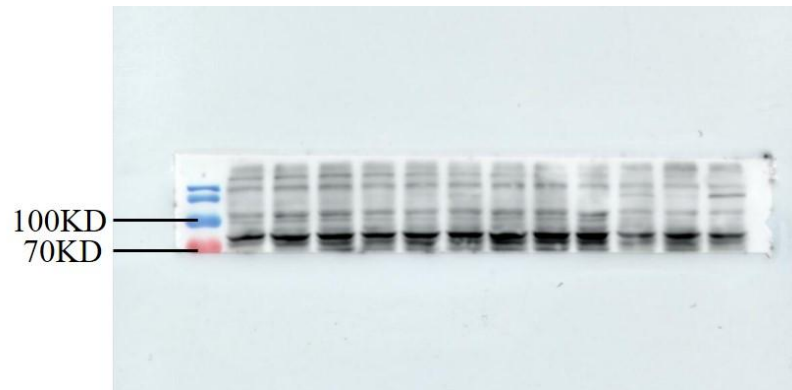


Membrane 21, Slice 2, probed with antibodies to **Histone**

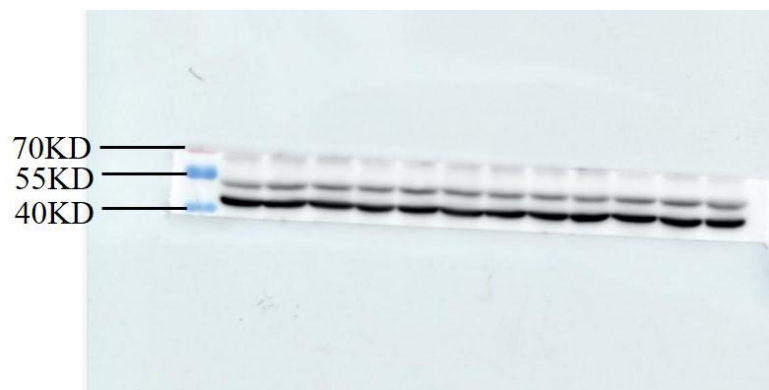


From left to right: *Fpn1*^{flox/flox} Con 1, *Fpn1*^{flox/flox} Con 2, *Fpn1*^{flox/flox} Con 3, *Fpn1*^{flox/flox} Ips 1, *Fpn1*^{flox/flox} Ips 2, *Fpn1*^{flox/flox} Ips 3, *Fpn1*^{cdh5}-CKO Con 1, *Fpn1*^{cdh5}-CKO Con 2, *Fpn1*^{cdh5}-CKO Con3, *Fpn1*^{cdh5}-CKO Ips 1, *Fpn1*^{cdh5}-CKO Ips 2, *Fpn1*^{cdh5}-CKO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

Membrane 22, Slice 1, probed with antibodies to **4HNE**

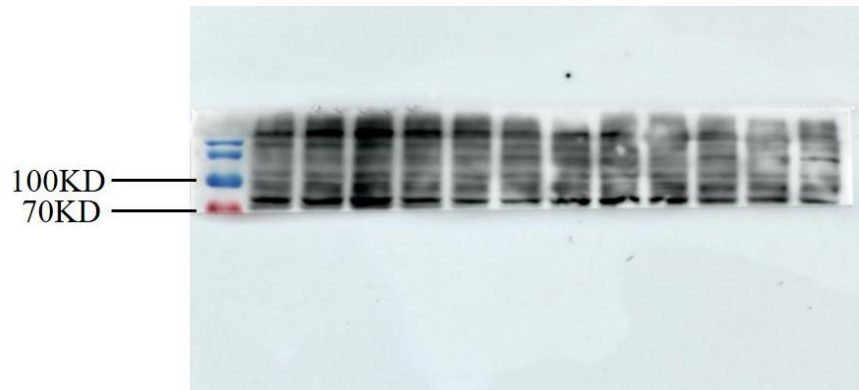


Membrane 22, Slice 2, probed with antibodies to **β-actin**



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 23, Slice 1, probed with antibodies to **4HNE**



Membrane 23, Slice 2, probed with antibodies to **β-actin**

