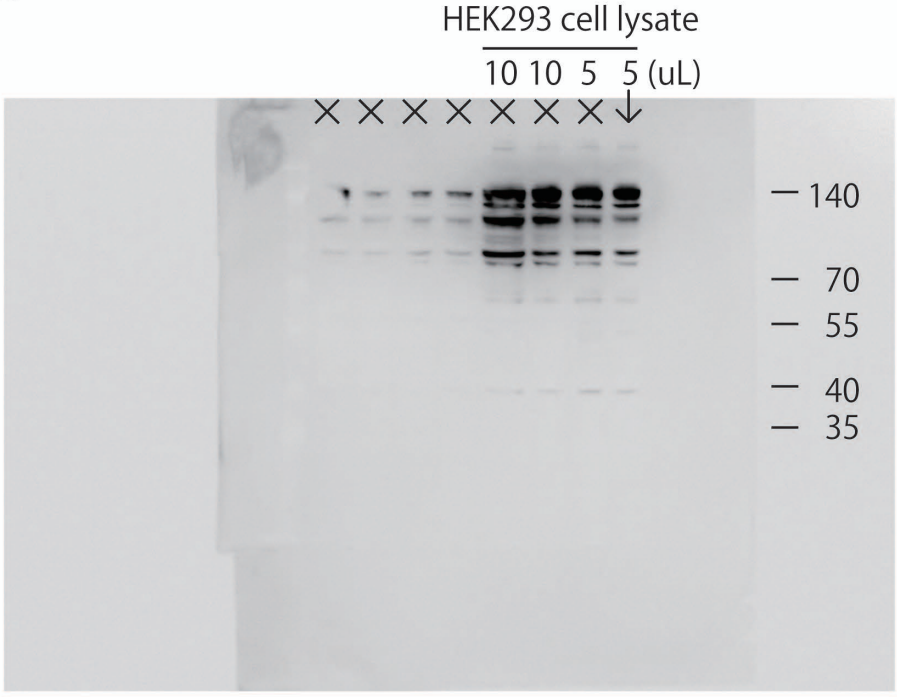
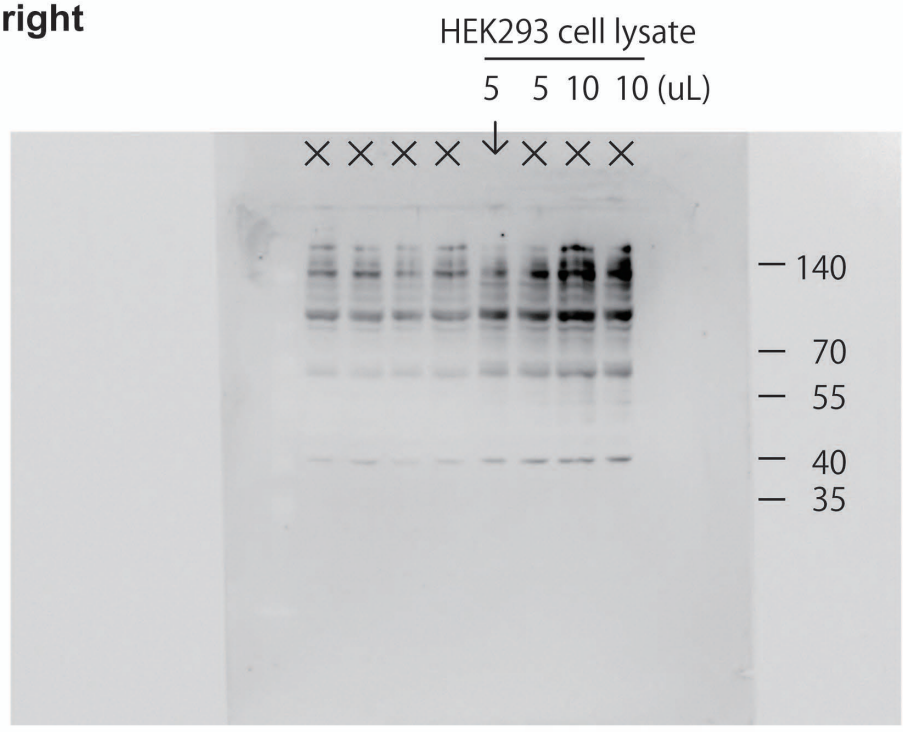
All images were detected using Image Quant LAS4000 (GE healthcare) and ECL Western blotting detection reagent (GE Healthcare) as a substrate.

Fig 1A left



anti-O-GlcNAc Ab RL2

Fig 1A right



anti-O-GlcNAc Ab CTD110.6

Fig 1B upper left

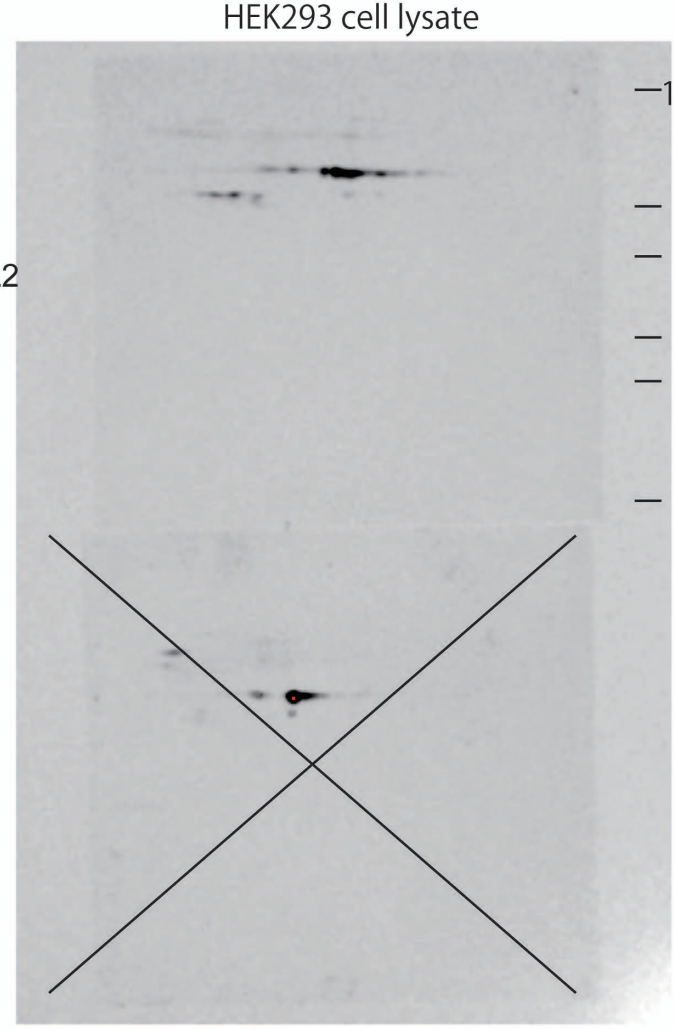


Fig 1B upper right

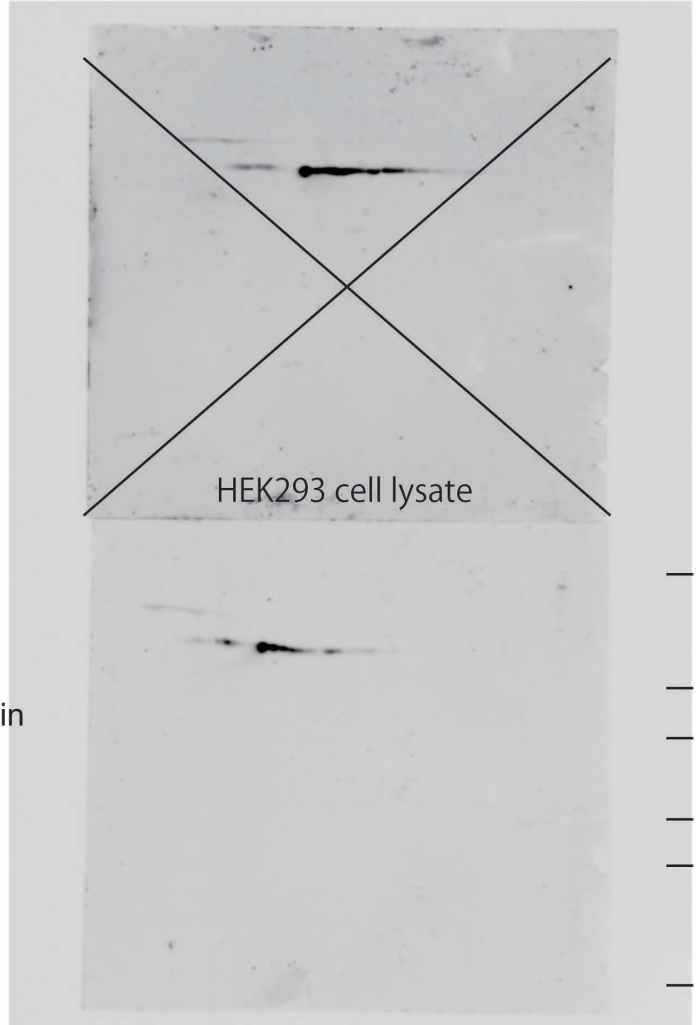


Fig 1B lower left

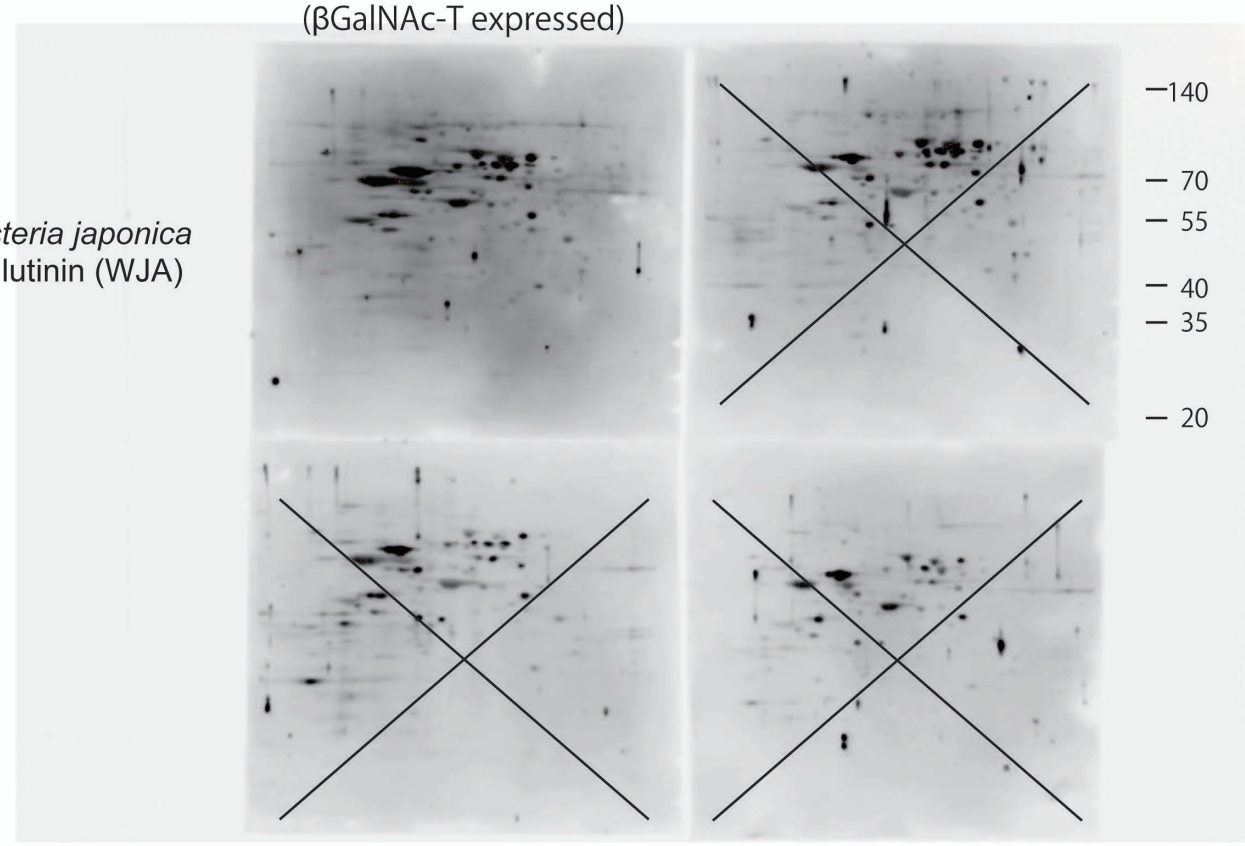


Fig 2B

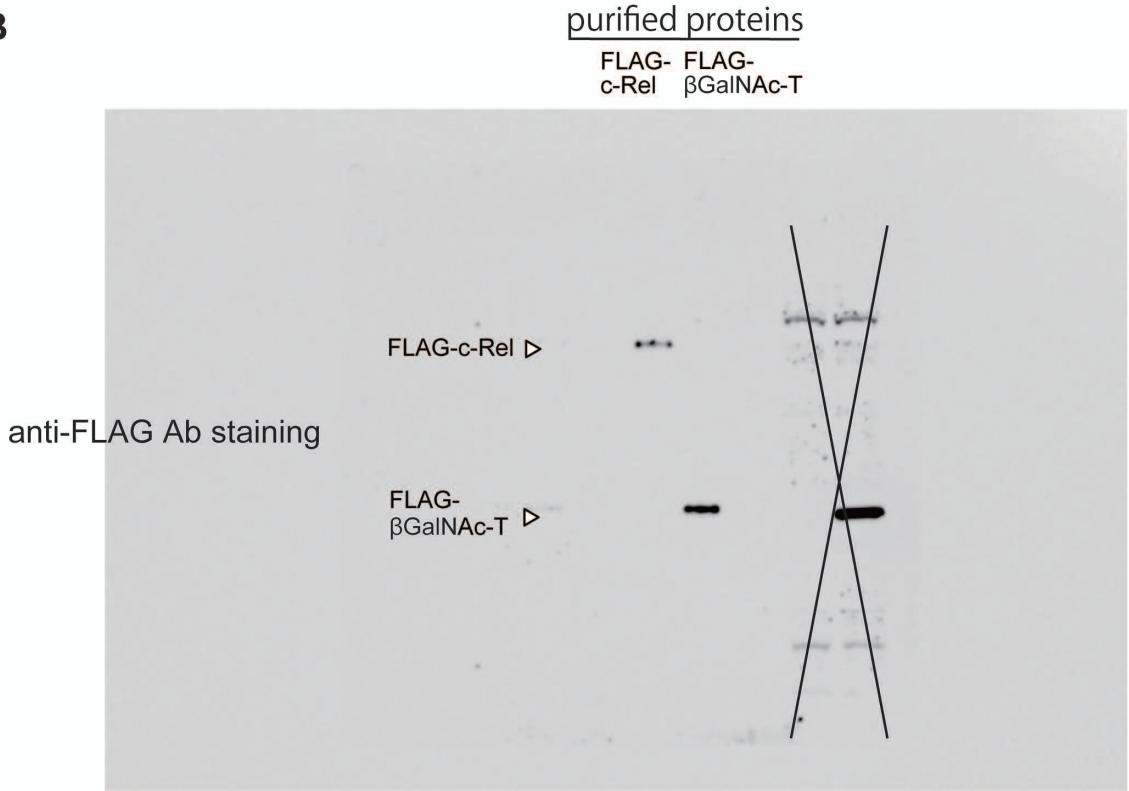


Fig 2C upper

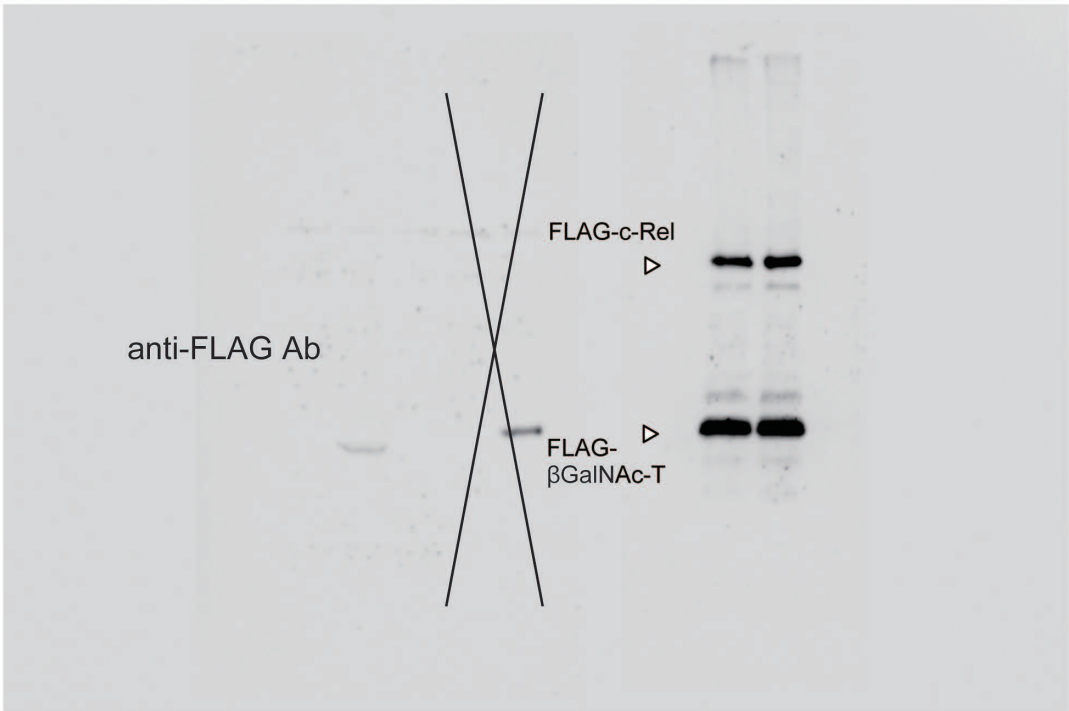


Fig 2C lower

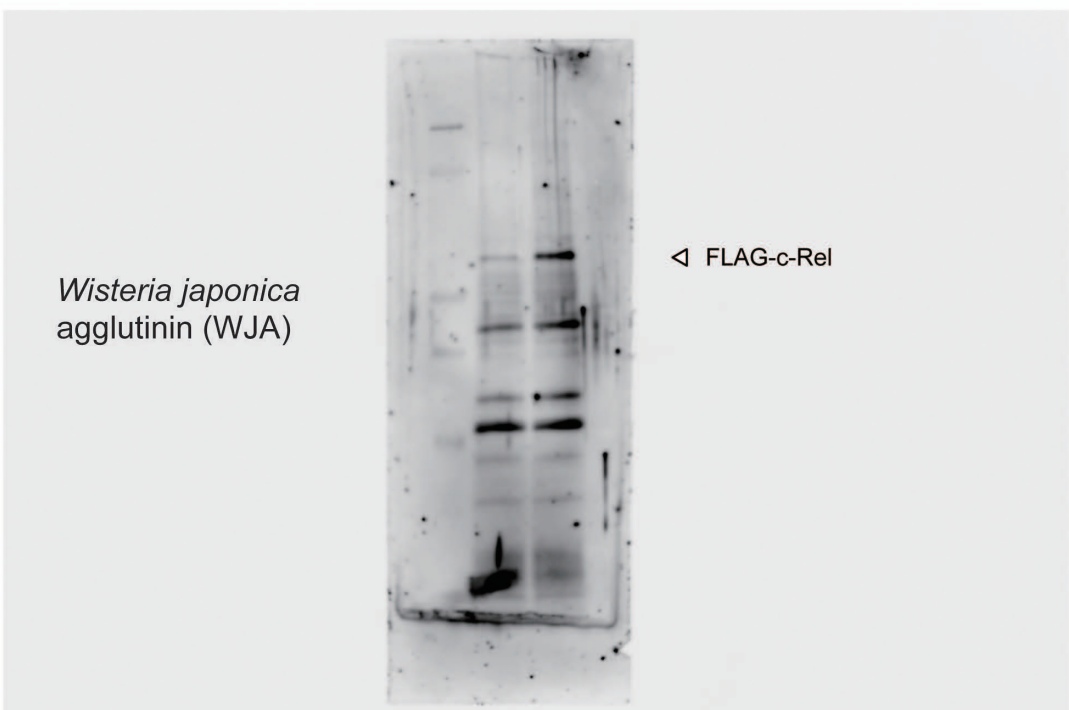


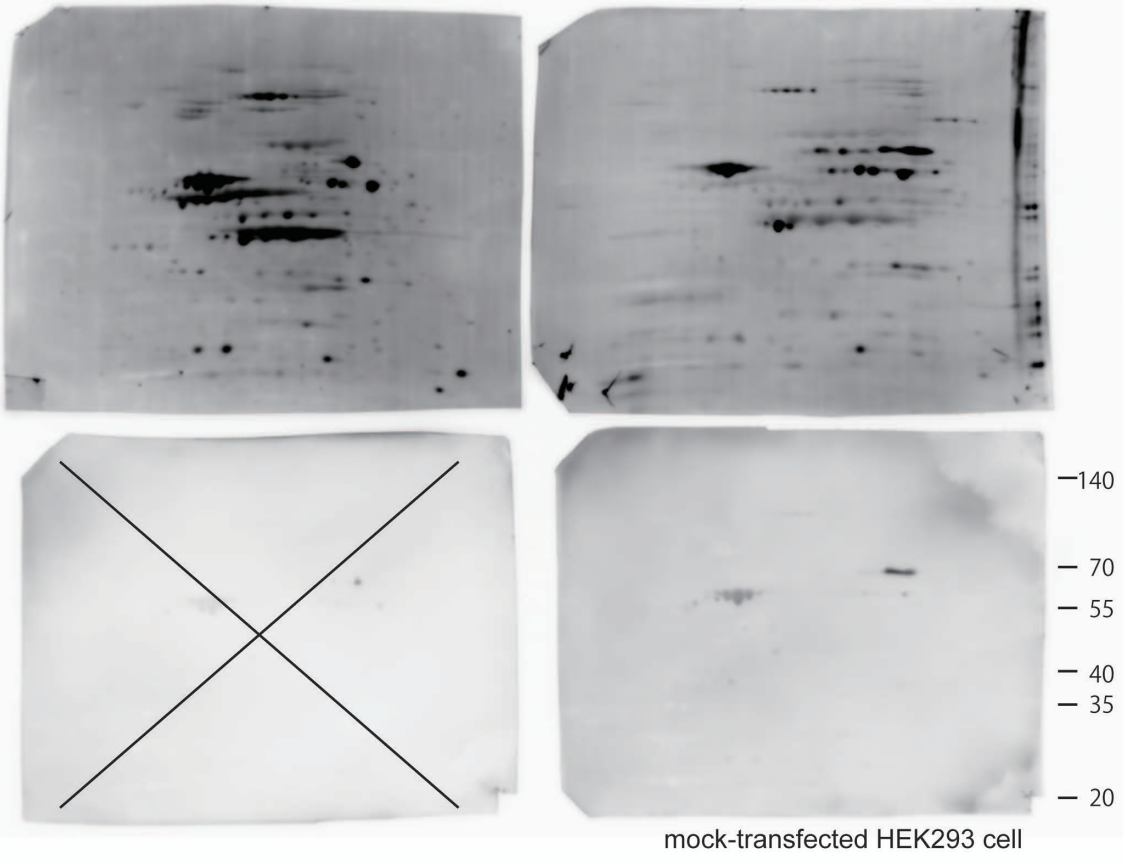
Fig 3 *Wisteria japonica* agglutinin (WJA) staining

Fig 3B middle

FLAG-NLS-β4GalNAc-T
-transfected HEK293 cell

Fig 3B left

FLAG-β4GalNAc-T
-transfected HEK293 cell



mock-transfected HEK293 cell

Fig 3B right

Fig 4 *Wisteria japonica* agglutinin (WJA) staining

Fig 4 left embryonic stem cell

Fig 4 right epiblast-like stem cell

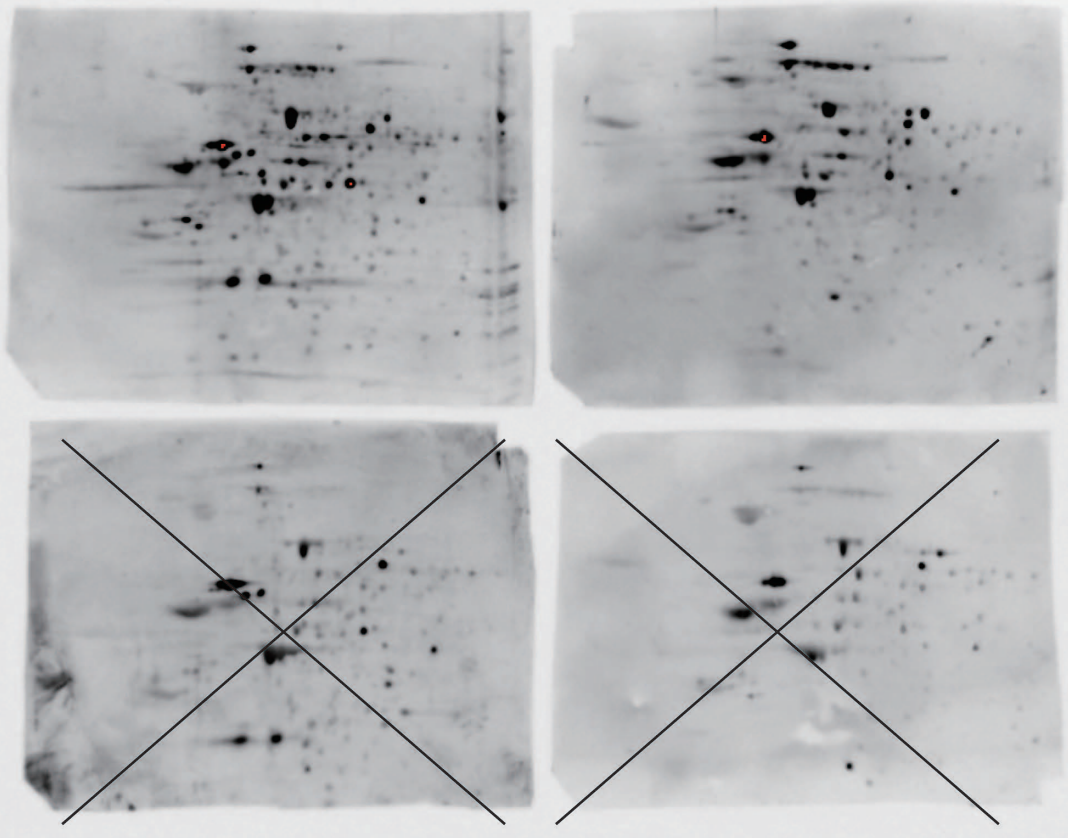


Fig 5

Fig 5A

IP: O-GlcNAc Ab
(RL-2)
WB: Sox2 Ab

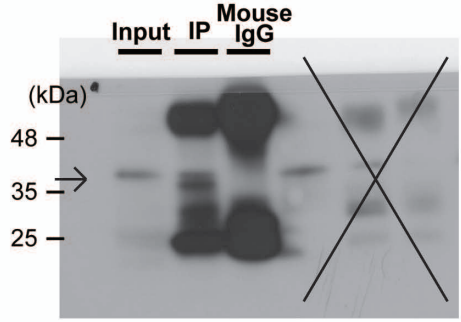


Fig 5B upper

IP: Sox2 Ab
WB: Sox2 Ab
(long exposure of Fig 5A)

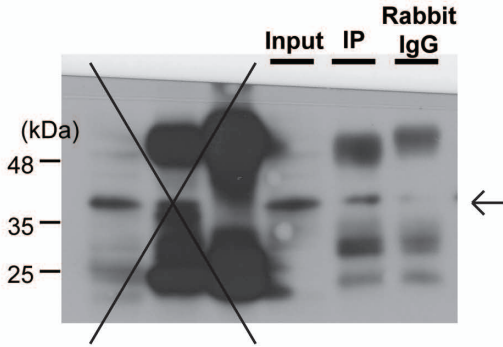


Fig 5B lower

IP: Sox2 Ab
WB: O-GlcNAc Ab
(RL-2)

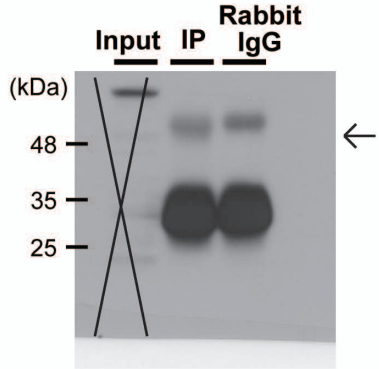


Fig 5C upper

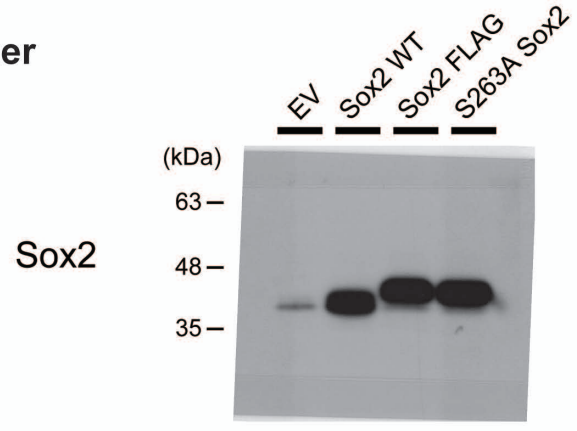


Fig 5C middle

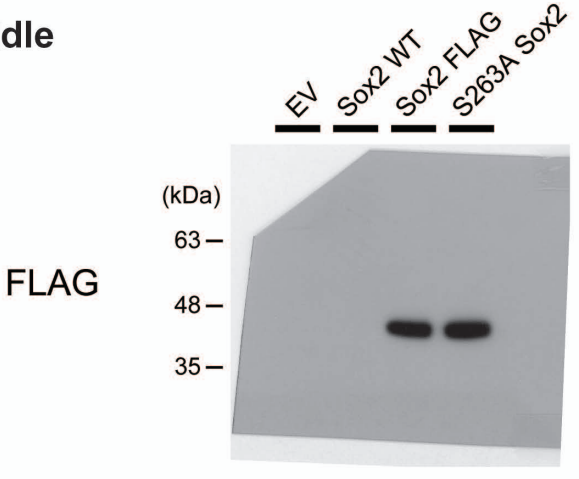
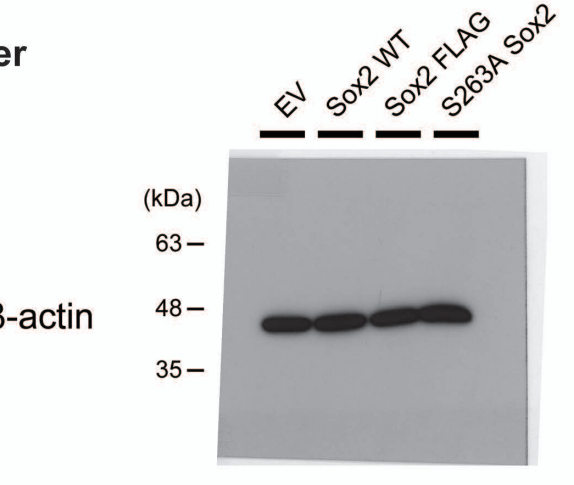


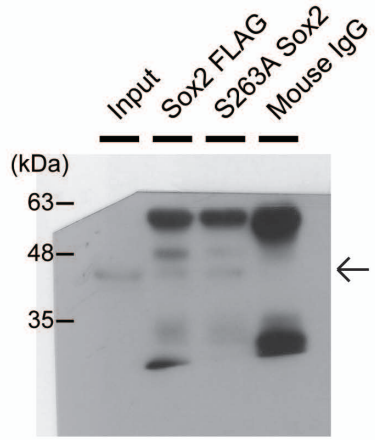
Fig 5C lower



48

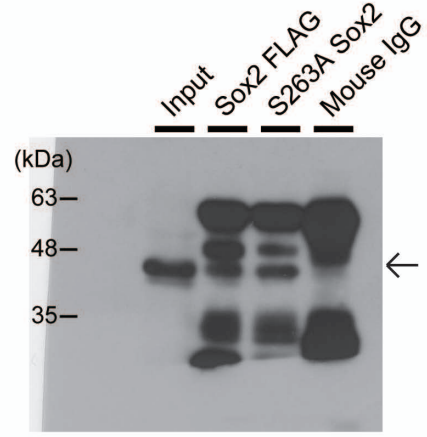
35

Fig 5D upper



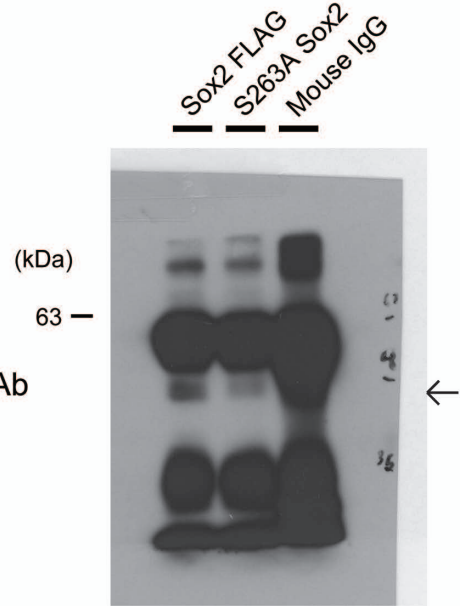
IP: FLAG Ab
WB: Sox2 Ab
(Short exposure)

Fig 5D middle



IP: FLAG Ab
WB: Sox2 Ab
(Long exposure)

Fig 5D lower



IP: FLAG Ab
WB: O-GlcNAc Ab
(RL-2)