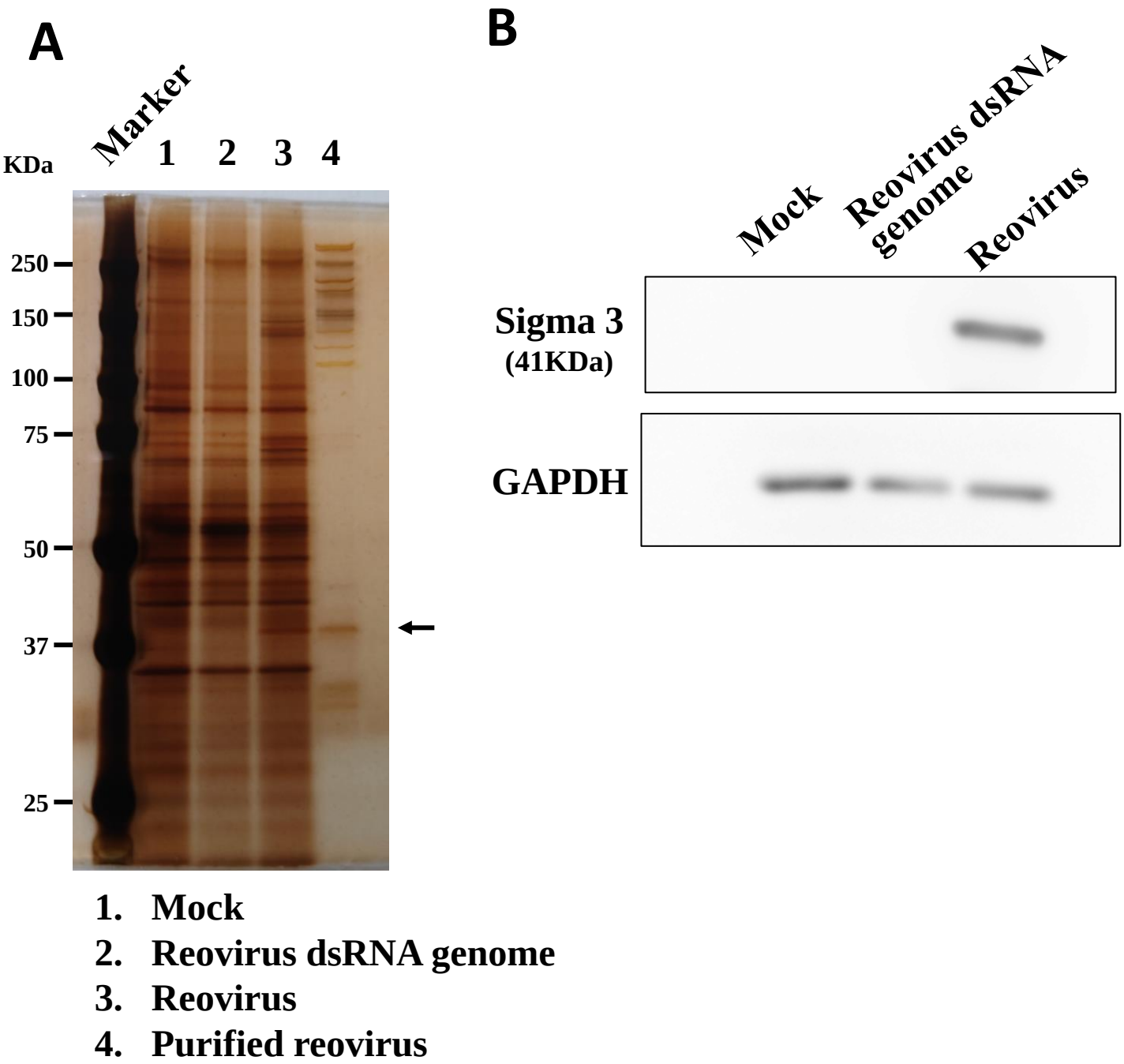
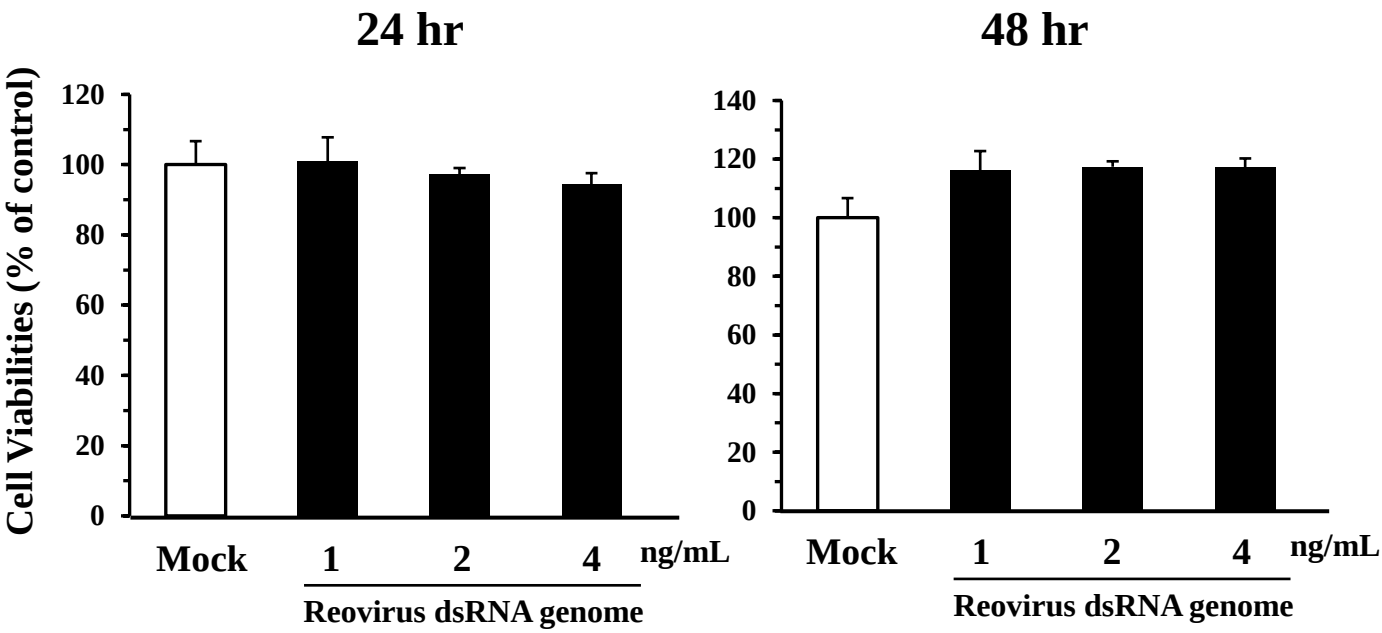
Supplemental Fig.1



Supplemental Fig.1

Undetectable levels of virus protein expression following transfection with the reovirus dsRNA genome. H1299 cells were seeded on a 12-well plate at a density of $5x10^4$ cells/well. On the following day, cells were transfected with the reovirus dsRNA genome at 4 ng/mL using Lipofectamine RNAiMAX, and were infected with reovirus at a multiplicity of infection (MOI) of 50. Following a 24-h incubation, cells were recovered, followed by SDS-PAGE and silver staining of cellular proteins (A) and western blotting analysis of sigma 3 protein expression in the cells (B). The arrow at the right side indicates the bands predicted for sigma 3 protein.

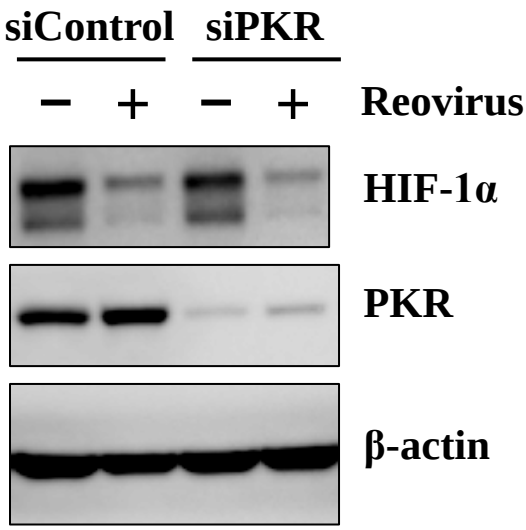
Supplemental Fig.2



Supplemental Fig.2

Cell viabilities following transfection with the reovirus dsRNA genome. H1299 cells were seeded on a 96-well plate at a density of $1x10^4$ cells/well. On the following day, cells were transfected with the reovirus dsRNA genome at the indicated doses using Lipofectamine RNAiMAX. Following 24-h and 48-h incubation, cell viabilities were determined by a WST-8 assay. Data are expressed as means ± S.D. (n=4).

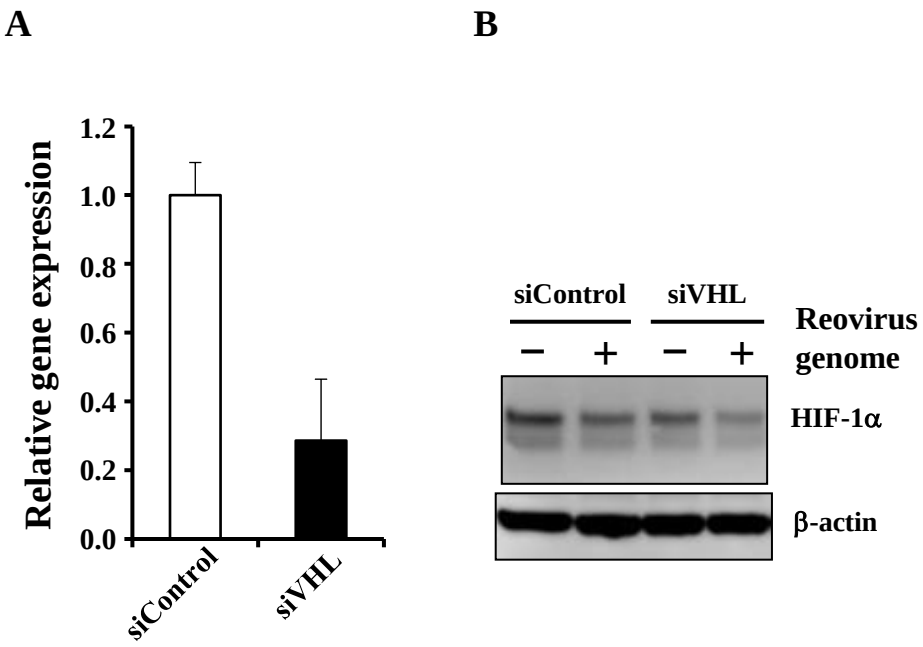
Supplemental Fig.3



Supplemental Fig.3

Reovirus-mediated down-regulation of HIF-1α in a PKR-independent manner. H1299 cells were transfected with an siRNA against PKR at 50 nM. Following a 24-h incubation, cells were infected with reovirus at an MOI of 20. Cell lysates were prepared 24 h after infection, followed by western blotting analysis. Representative images of two independent experiments are shown.

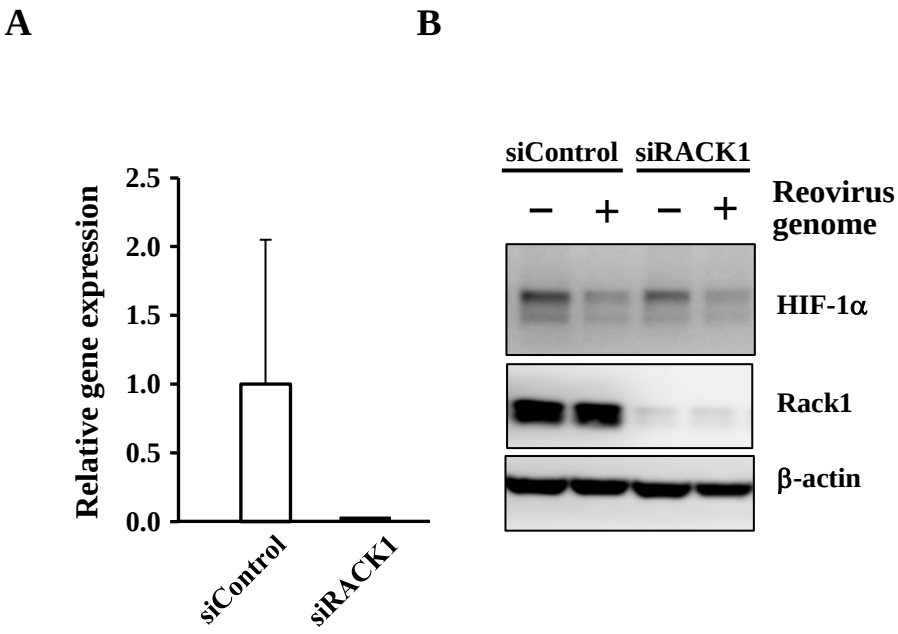
Supplemental Fig.4



Supplemental Fig.4

dsRNA-mediated down-regulation of HIF-1α in a VHL-independent manner. H1299 cells were transfected with an siRNA against VHL at 50 nM. Following a 24-h incubation, cells were transfected with the reovirus dsRNA genome at 4 ng/mL. Real-time RT-PCR analysis was performed 24 h after siRNA transfection. Cell lysates were prepared 24 h after transfection with reovirus dsRNA genome, followed by western blotting analysis. Data are expressed as means ± S.D. (n=4). The representative images from at least two independent experiments are shown.

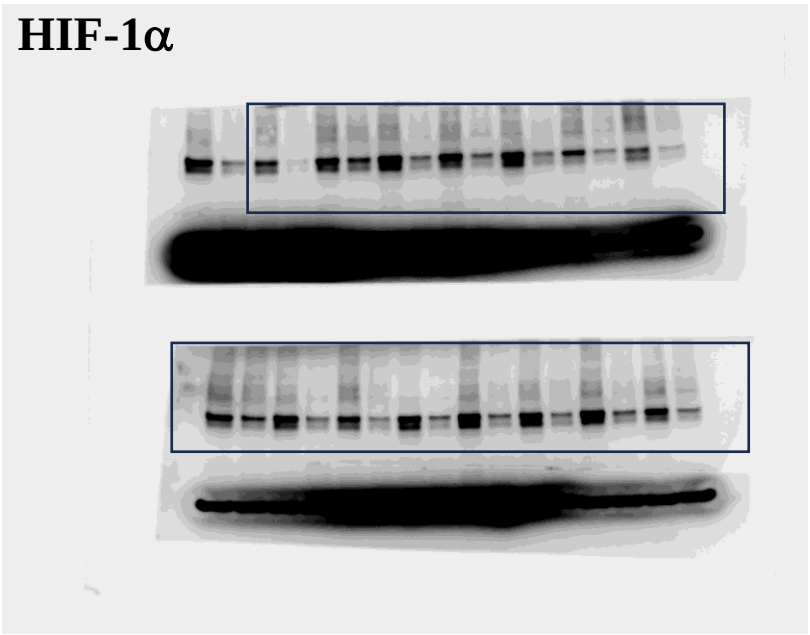
Supplemental Fig.5

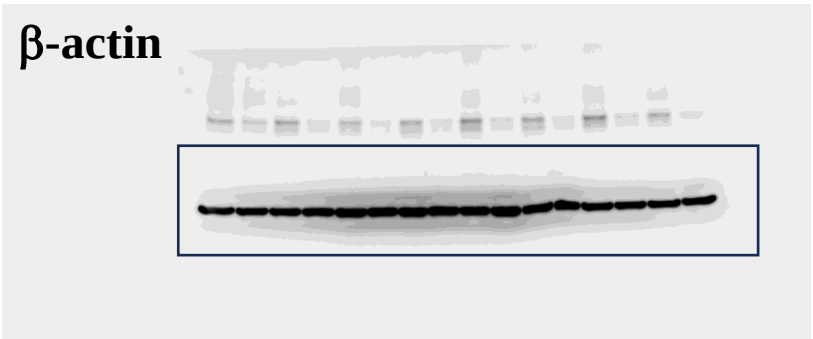


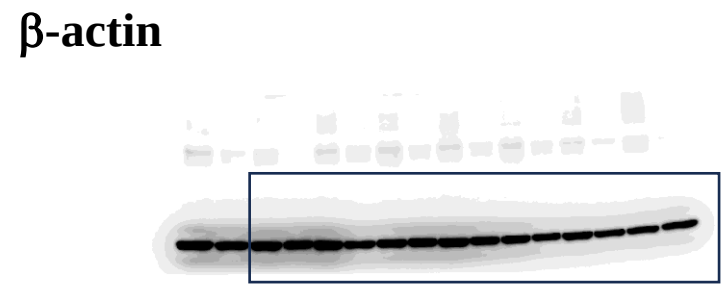
Supplemental Fig.4

dsRNA-mediated down-regulation of HIF-1α in a RACK1-independent manner. H1299 cells were transfected with an siRNA against RACK1 at 50 nM. Following a 24-h incubation, cells were transfected with the reovirus dsRNA genome at 4 ng/mL. Real-time RT-PCR analysis was performed 24 h after siRNA transfection. Cell lysates were prepared 24 h after transfection with the reovirus dsRNA genome, followed by western blotting analysis. Data are expressed as means ± S.D. (n=4). The representative images from at least two independent experiments are shown.

Supplemental Fig.6

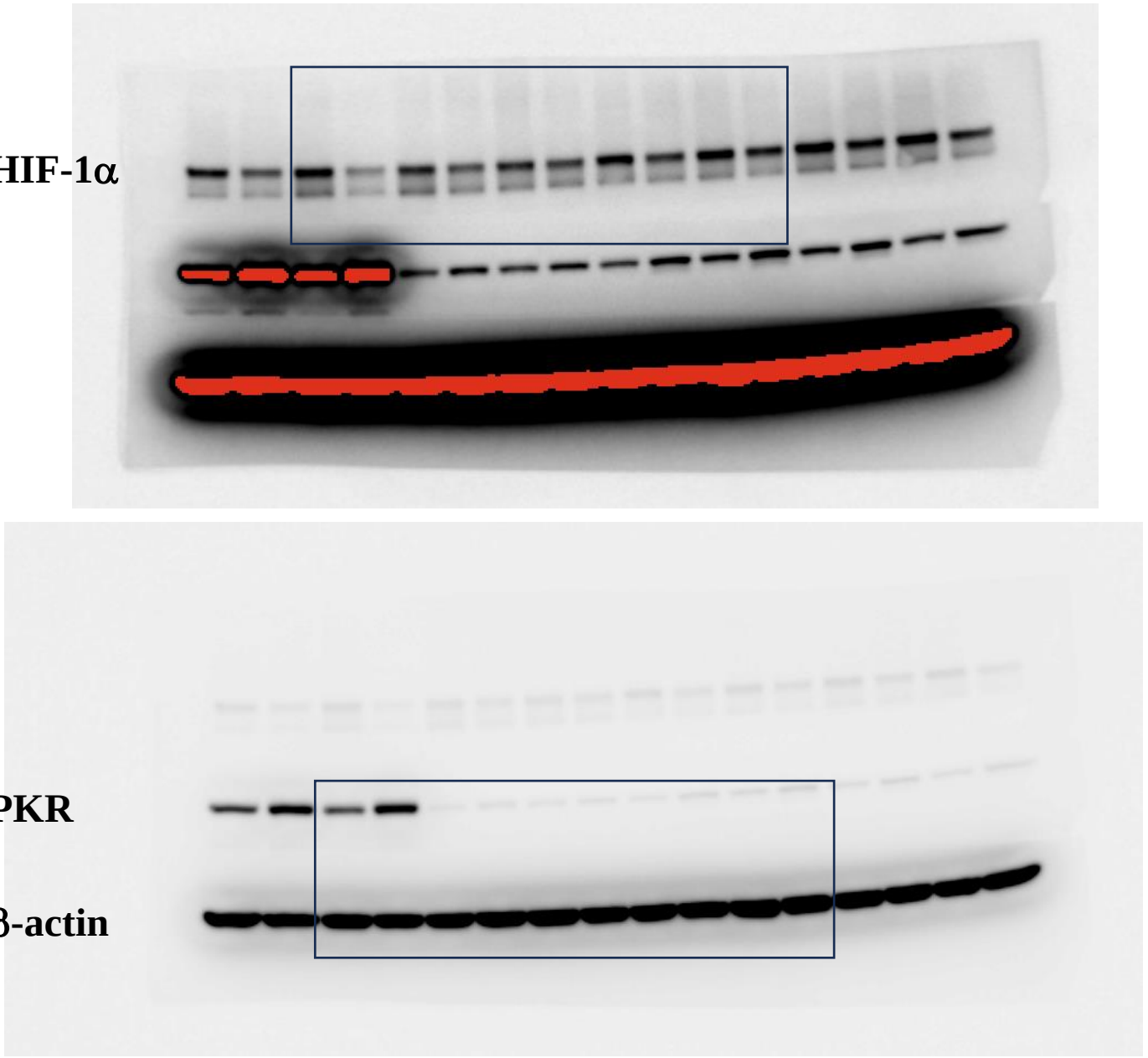






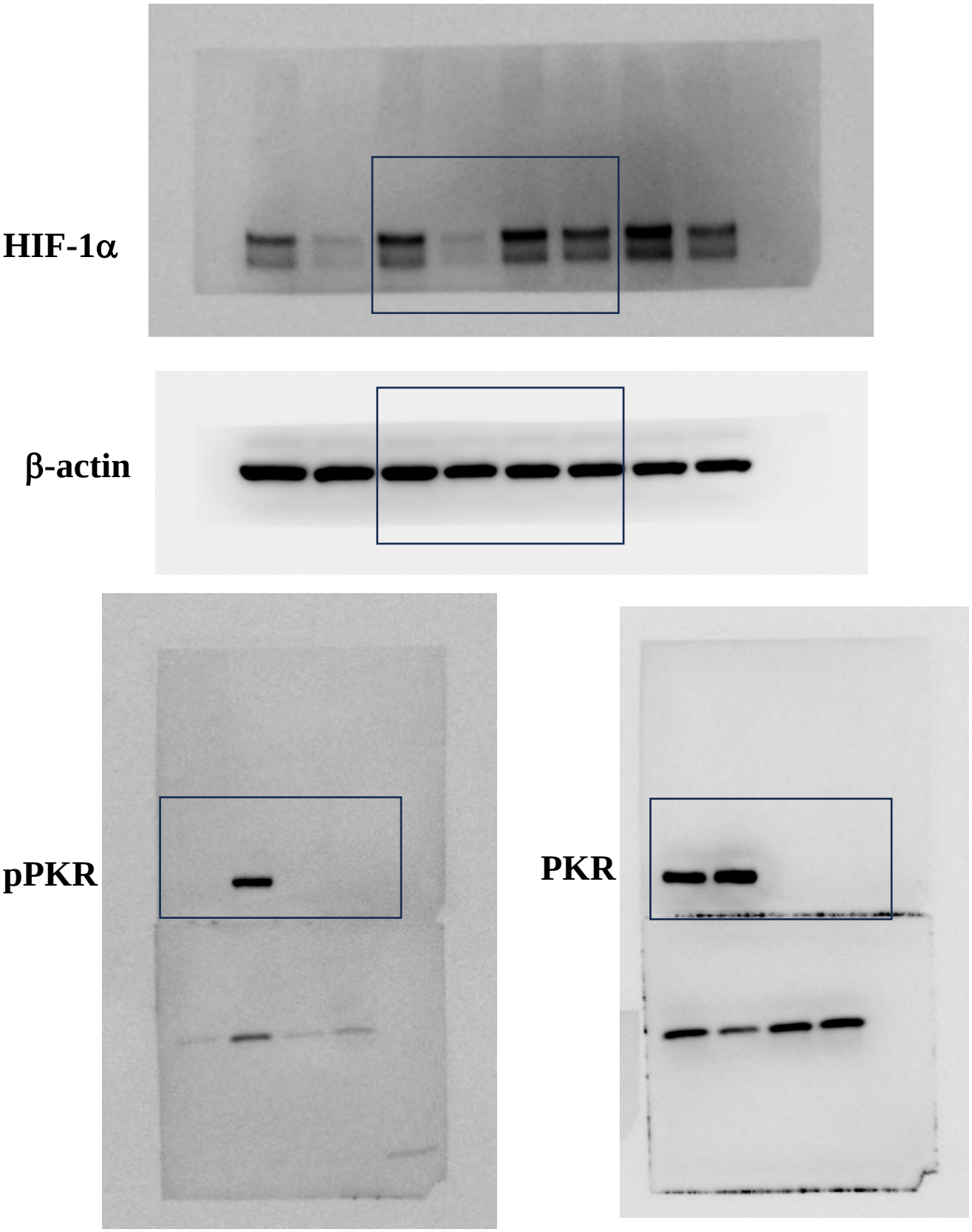
Supplemental Fig.6
Raw image of western blots for HIF-1α and β-actin in H1299 cells used in Figure 1B.

Supplemental Fig.7



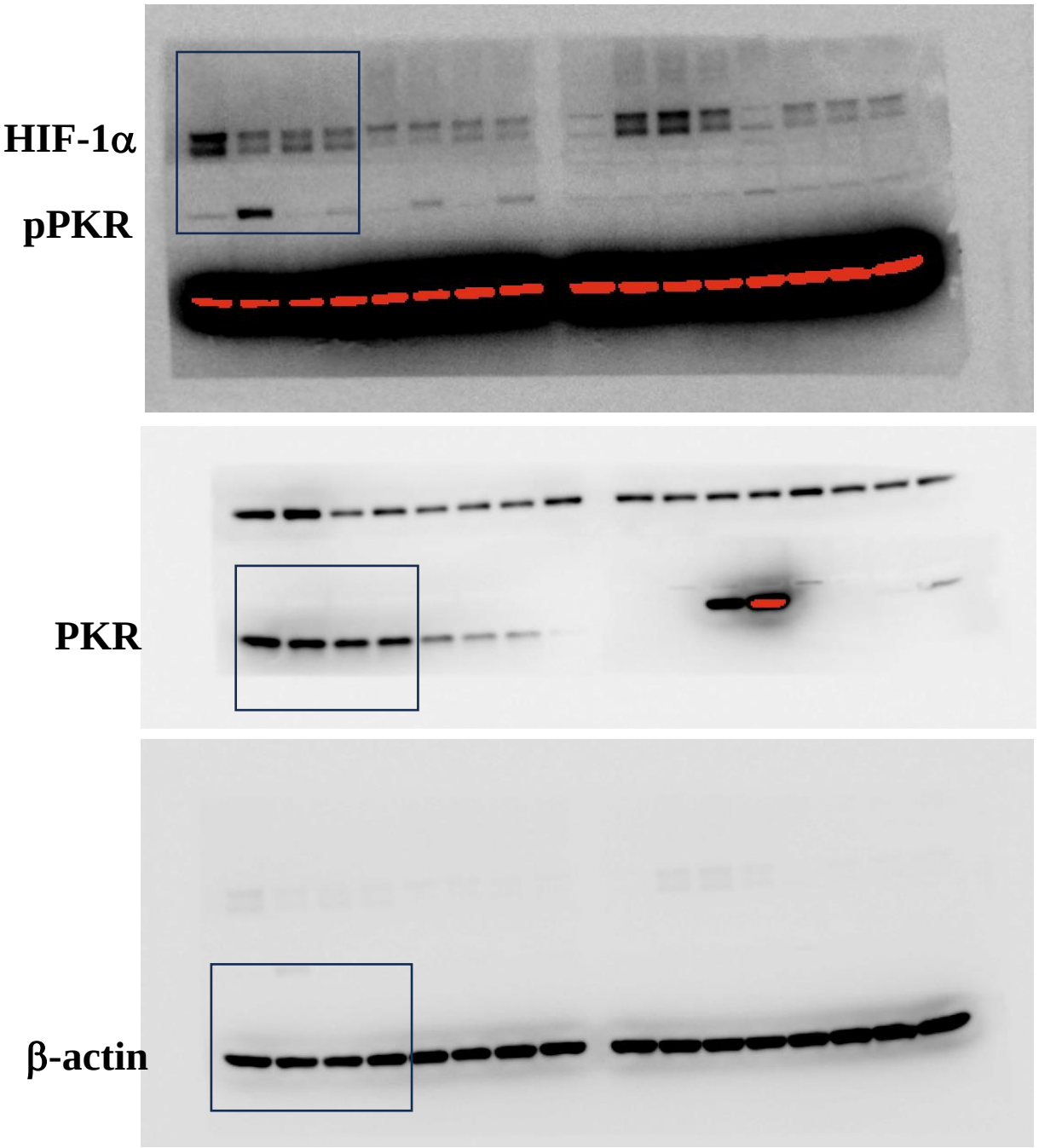
Supplemental Fig.7
Raw image of western blots for HIF-1α, PKR, and β-actin in H1299 cells used in Figure 1E.

Supplemental Fig.8



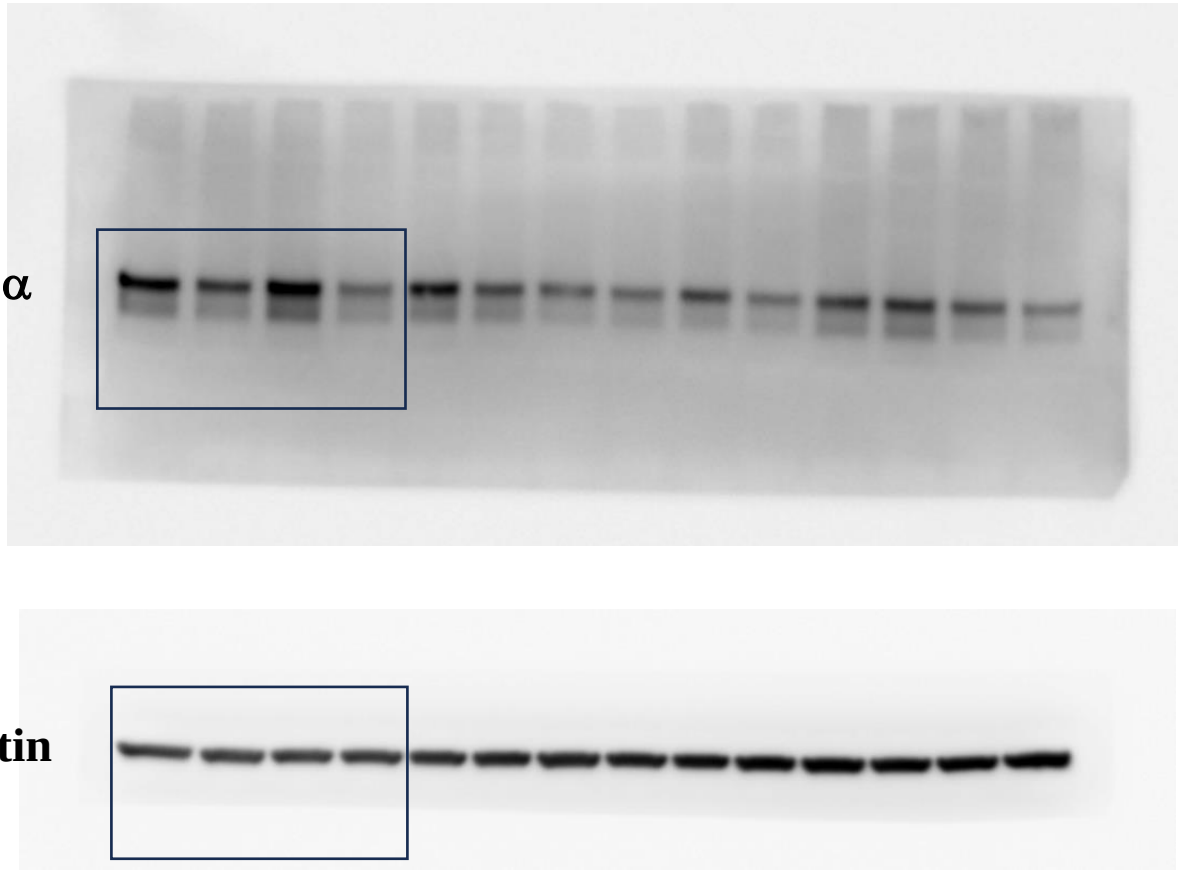
Supplemental Fig.8
Raw image of western blots for HIF-1α, PKR, phosphorylated PKR (pPKR), and β-actin in H1299 cells used in Figure 1F.

Supplemental Fig.9



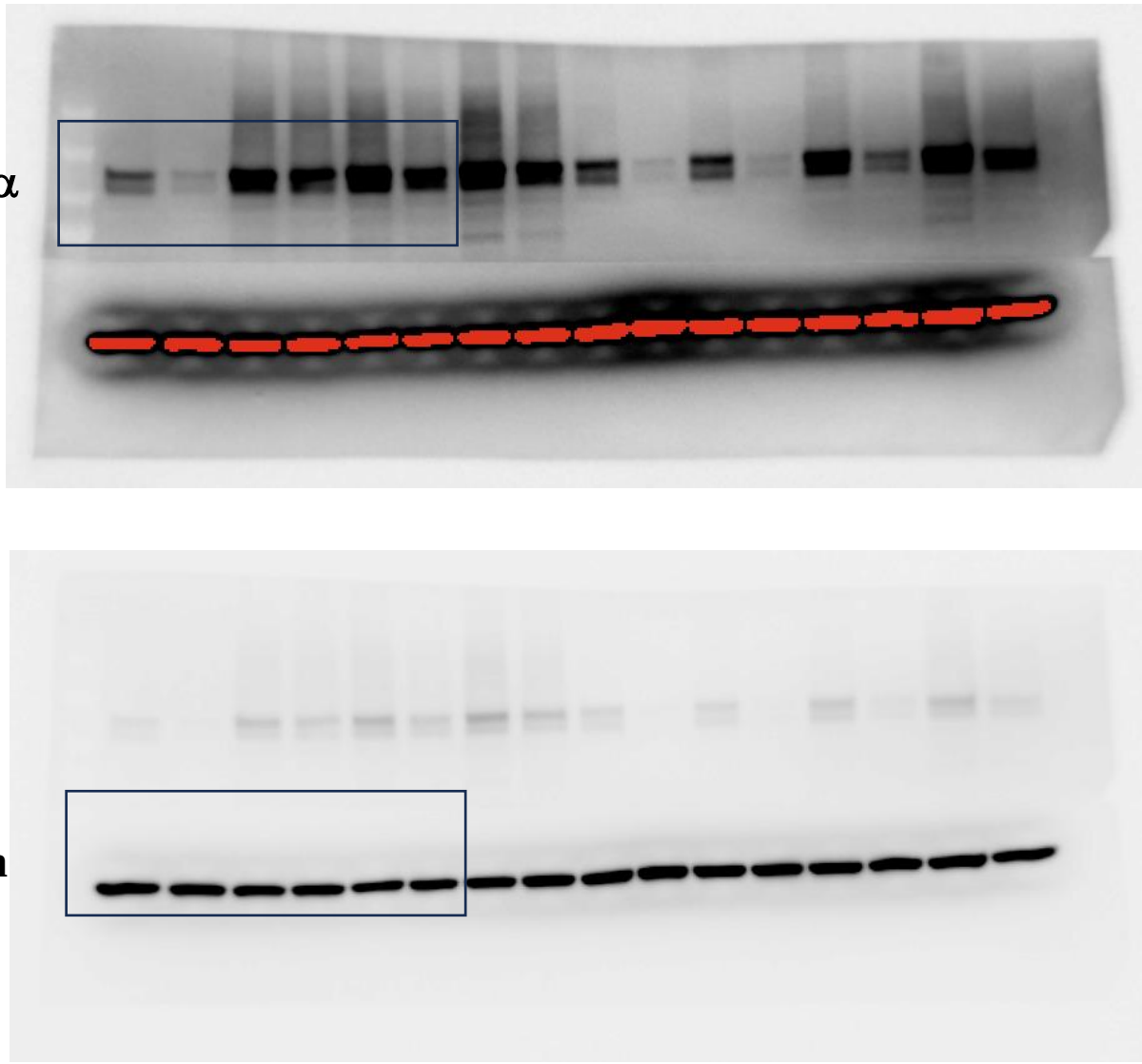
Supplemental Fig.9
Raw image of western blots for HIF-1α, PKR, phosphorylated PKR (pPKR), and β-actin in H1299 cells used in Figure 2A.

Supplemental Fig.10



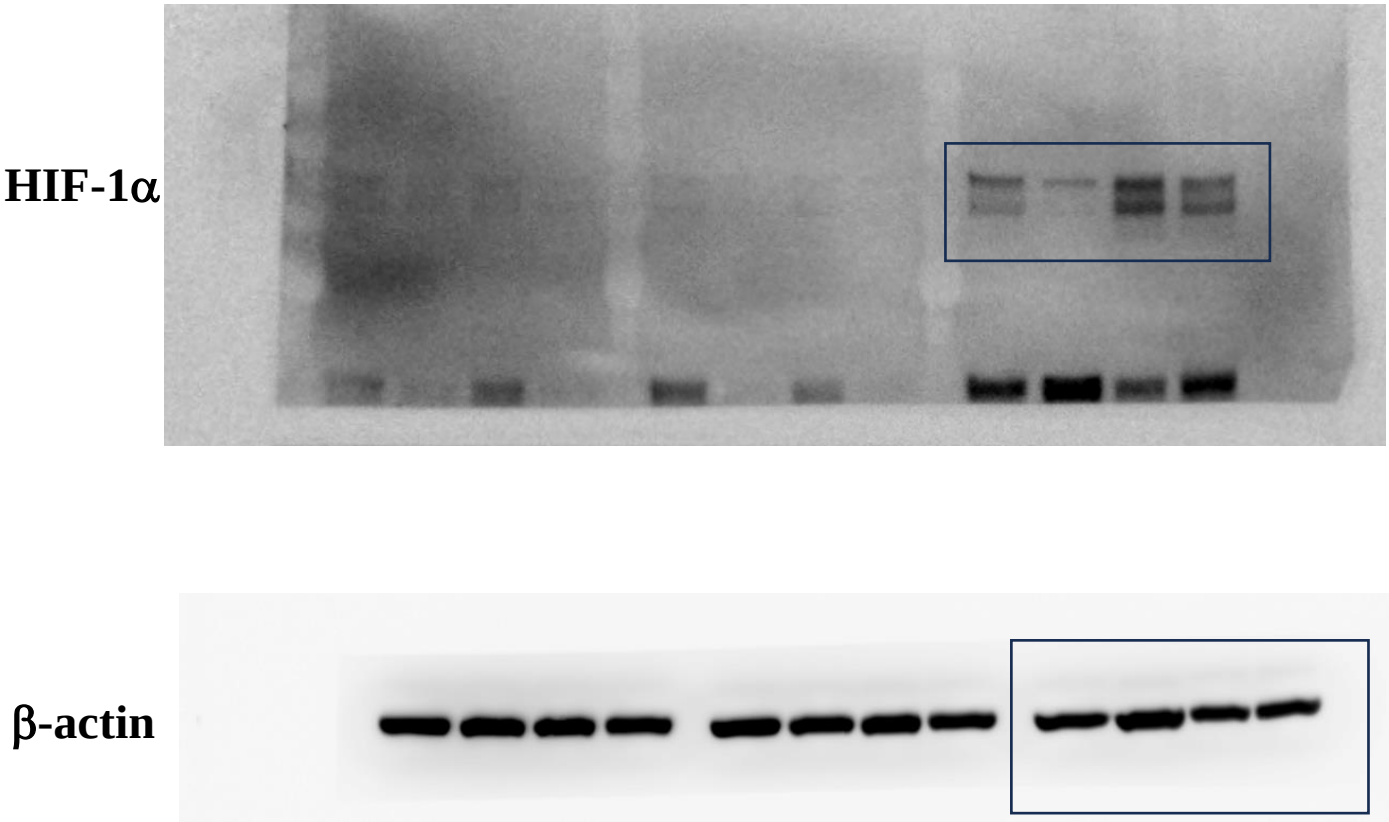
Supplemental Fig.10
Raw image of western blots for HIF-1α and β-actin in H1299 cells used in Figure 2C.

Supplemental Fig.11



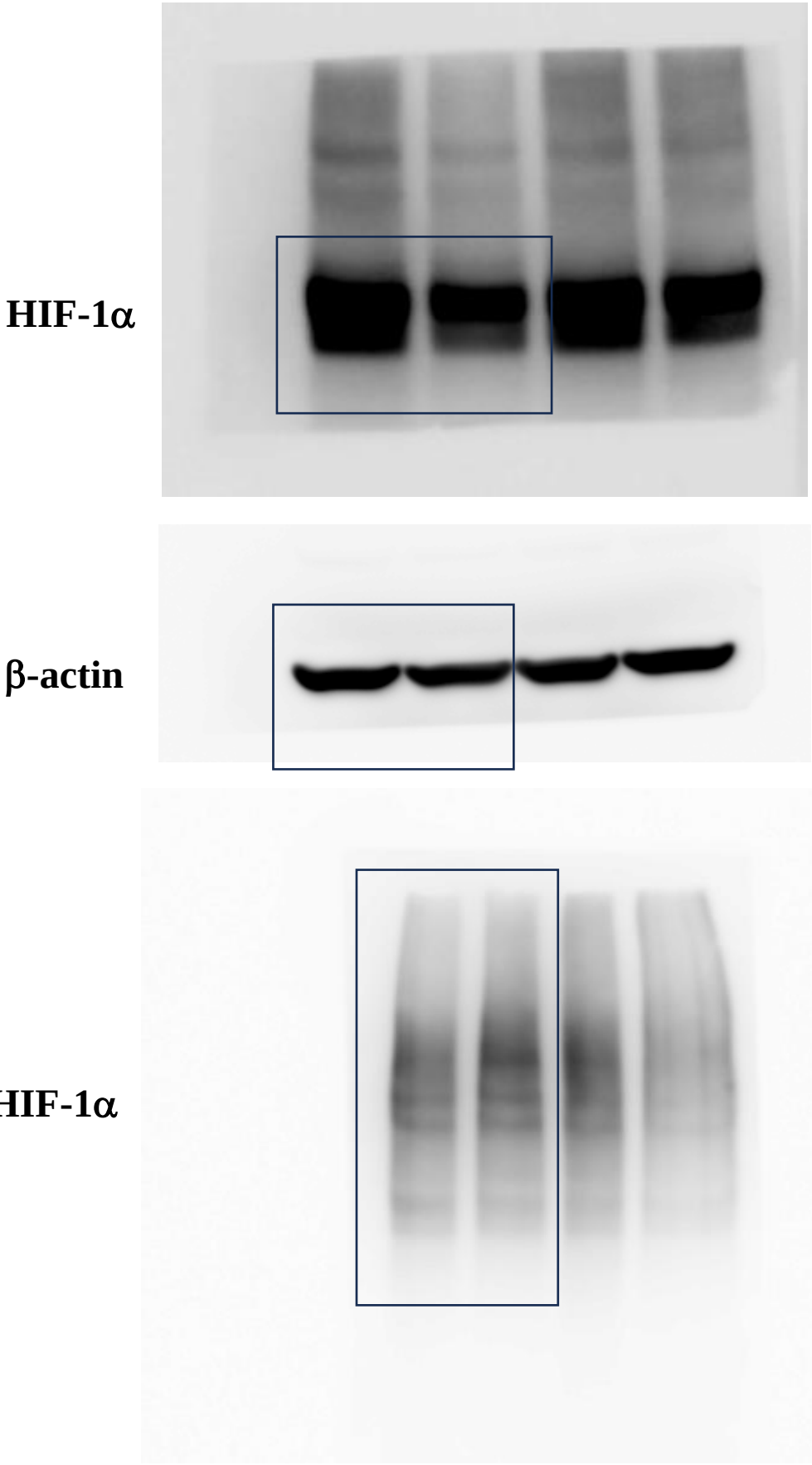
Supplemental Fig.11
Raw image of western blots for HIF-1α and β-actin in H1299 cells used in Figure 3A.

Supplemental Fig.12



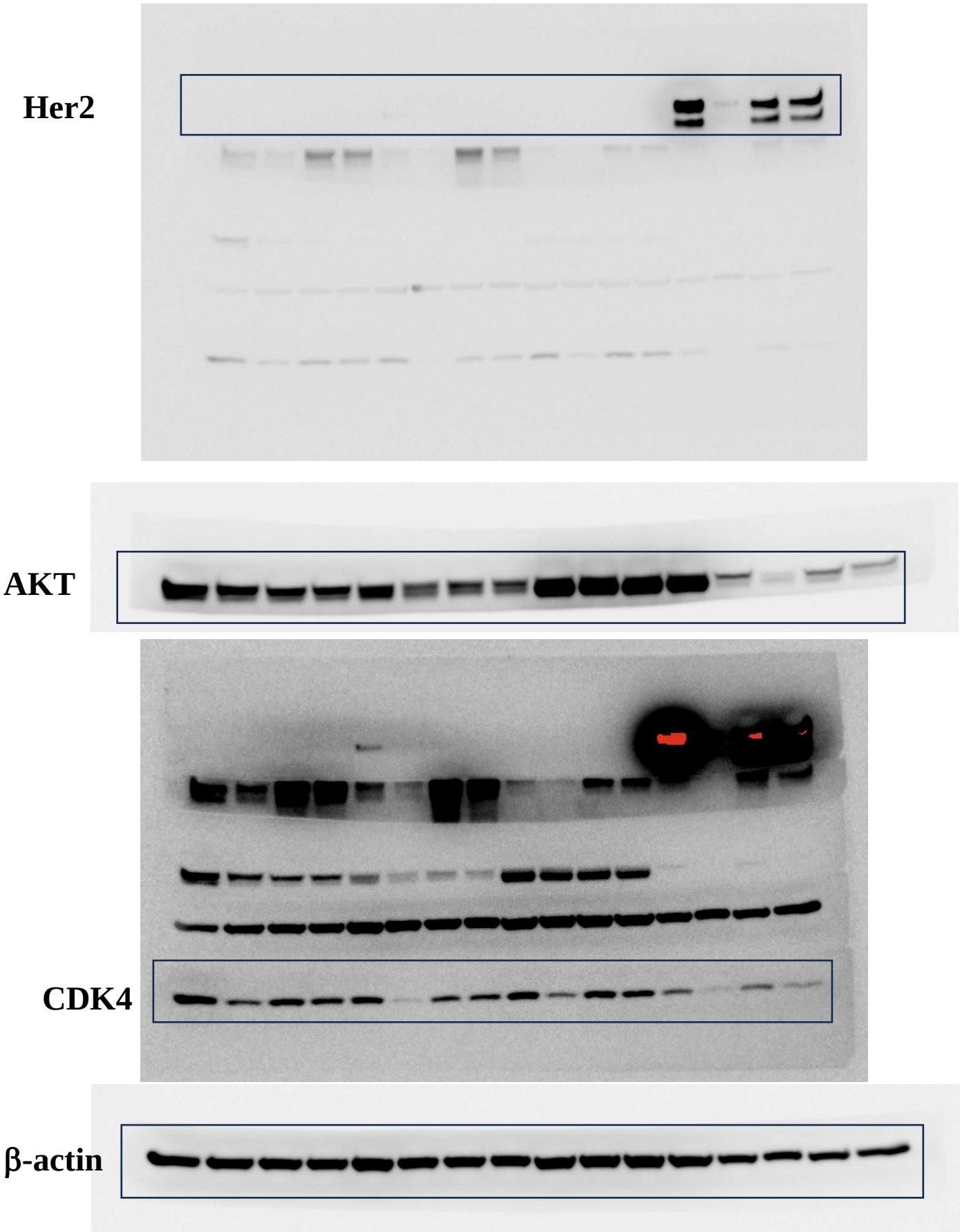
Supplemental Fig.12
Raw image of western blots for HIF-1α and β-actin in H1299 cells used in Figure 3B.

Supplemental Fig.13



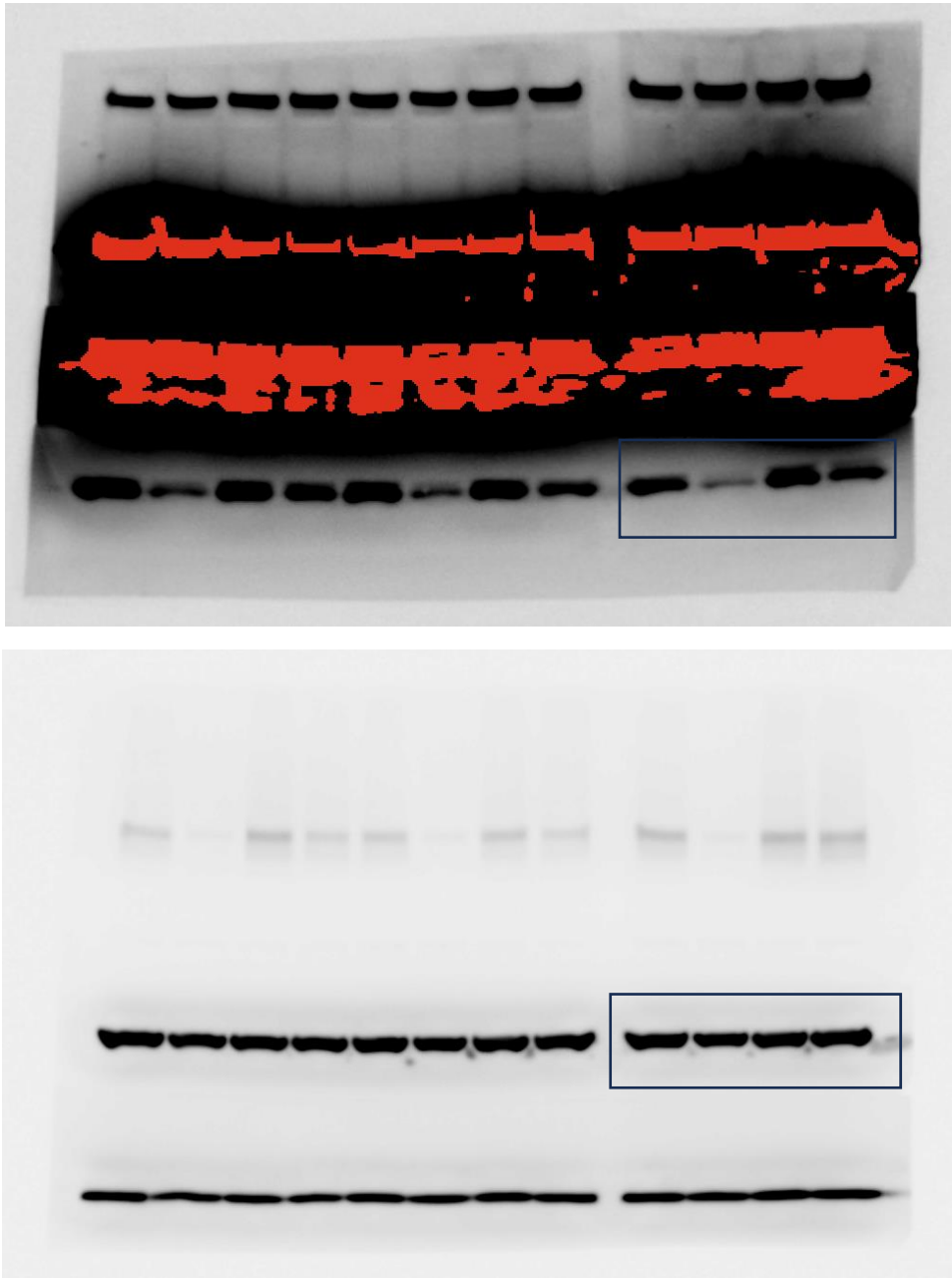
Supplemental Fig.13
Raw image of western blots for HIF-1α and β-actin in H1299 cells used in Figure 3C.

Supplemental Fig.14



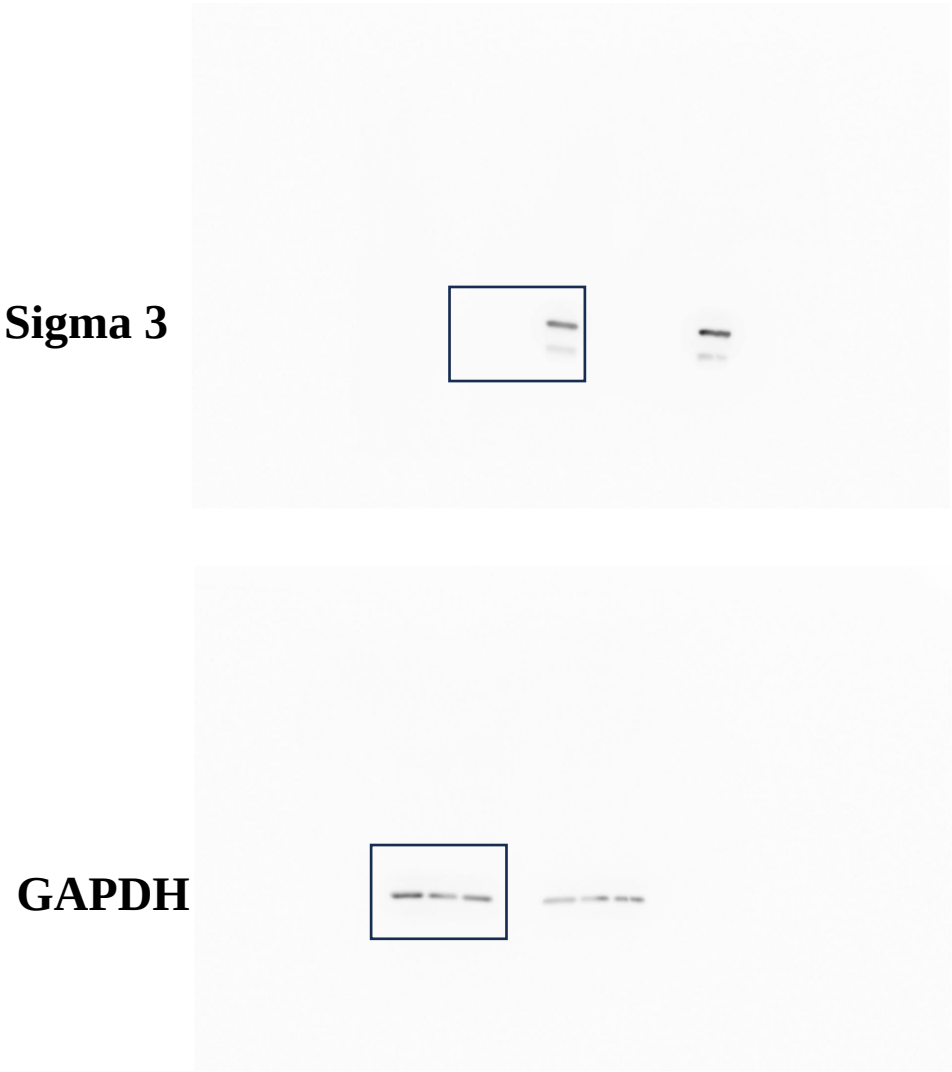
Supplemental Fig.14
Raw image of western blots for HIF-1α and β-actin in human cultured cells used in Figure 4A.

Supplemental Fig.15



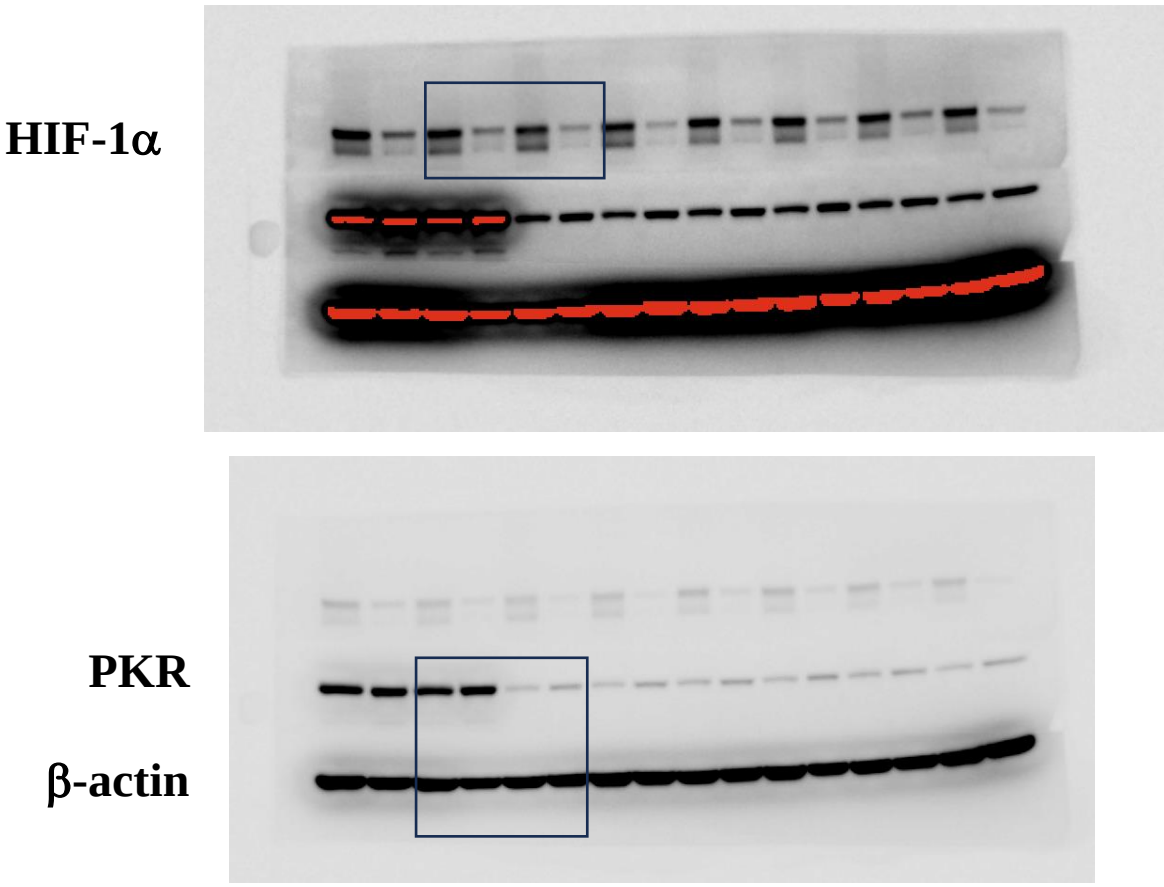
Supplemental Fig.15
Raw image of western blots for HIF-1α and β-actin in H1299 cells used in Figure 4B.

Supplemental Fig.16



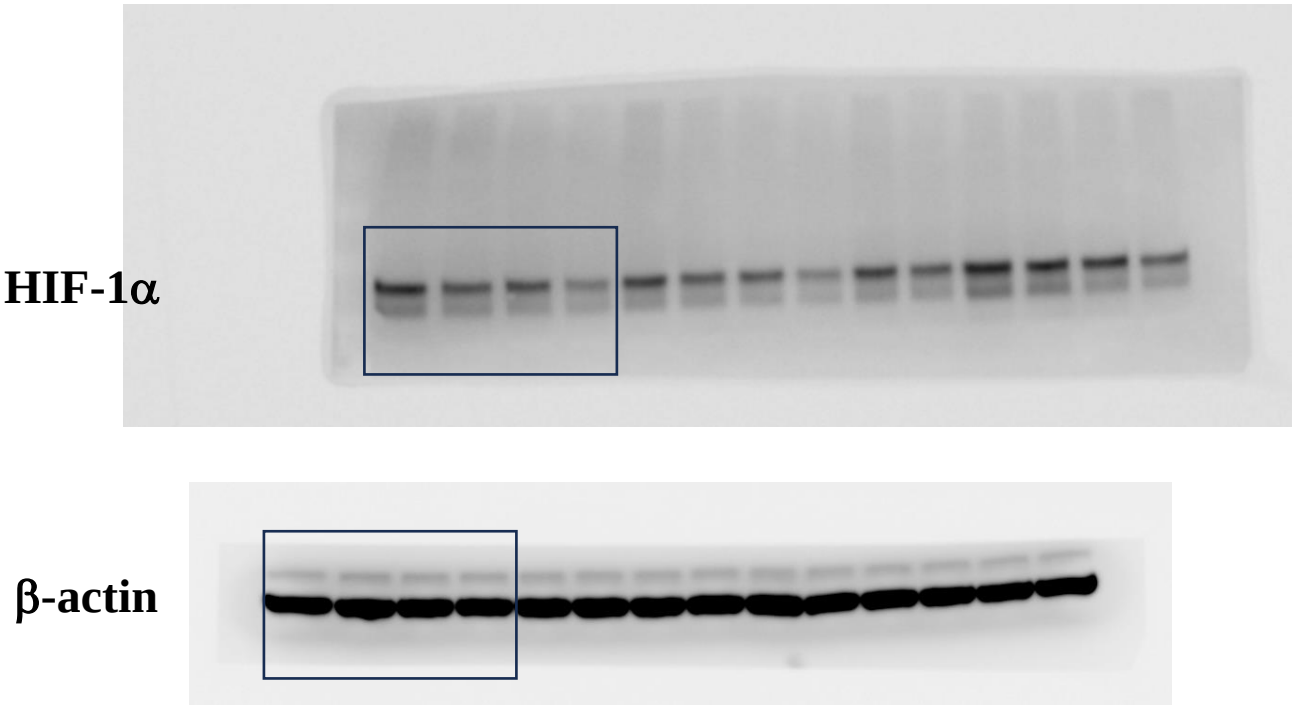
Supplemental Fig.16
Raw image of western blots for reovirus sigma 3 and GAPDH in H1299 cells used in Supplemental Figure 1B.

Supplemental Fig.17



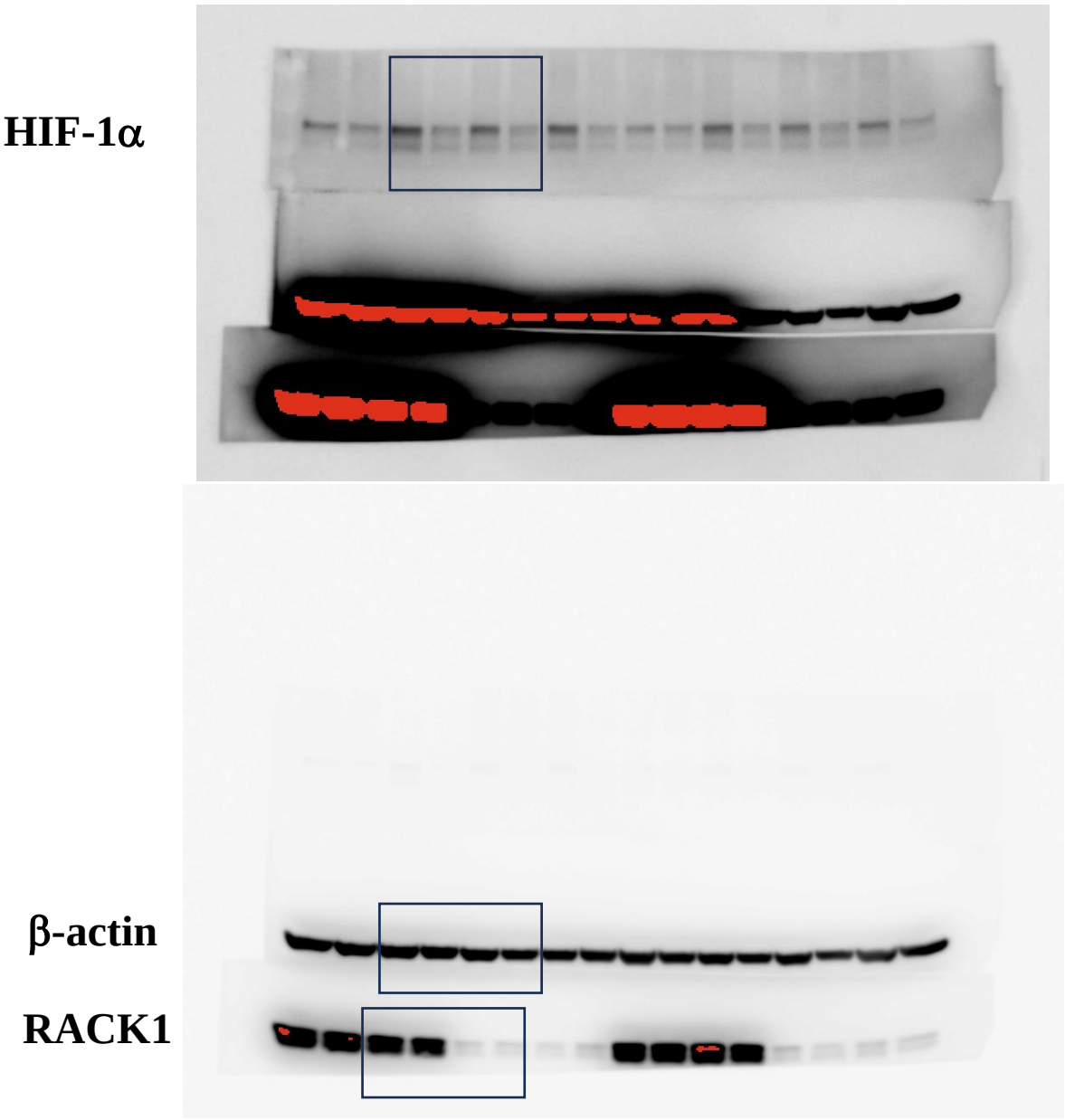
Supplemental Fig.17
Raw image of western blots for HIF-1α, PKR, and β-actin in H1299 cells used in Supplemental Figure 3.

Supplemental Fig.18



Supplemental Fig.18
Raw image of western blots for HIF-1α and β-actin in H1299 cells used in Supplemental Figure 4B.

Supplemental Fig.19



Supplemental Fig.19
Raw image of western blots for HIF-1α, RACK1, and β-actin in H1299 cells used in Supplemental Figure 5B.