

Fig 1C

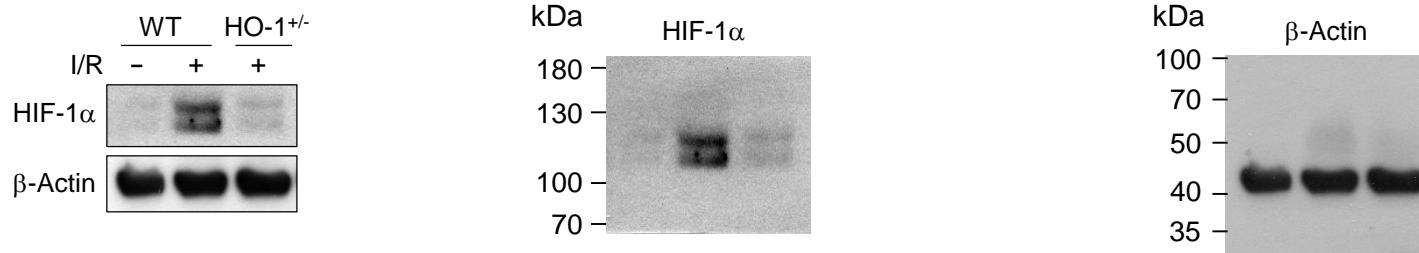


Fig 2A

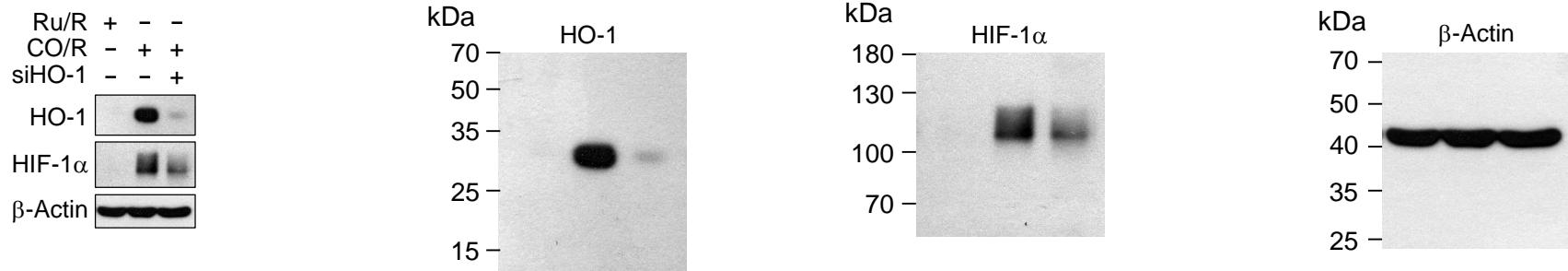


Fig 2B

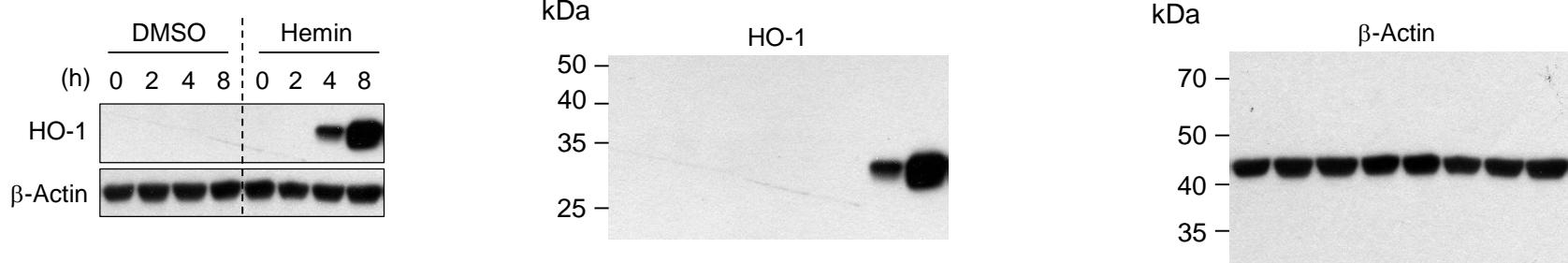


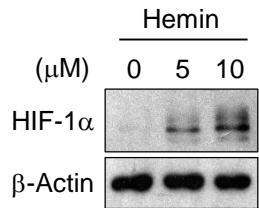
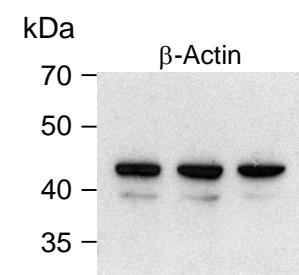
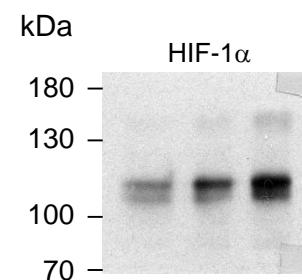
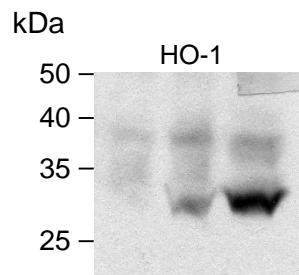
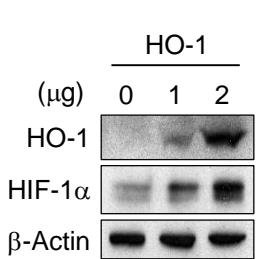
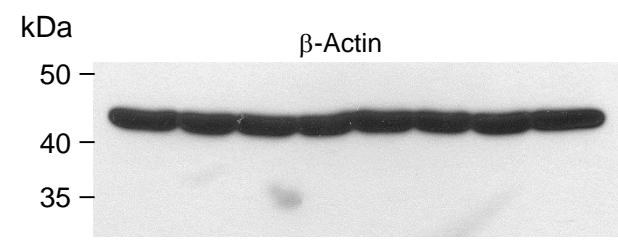
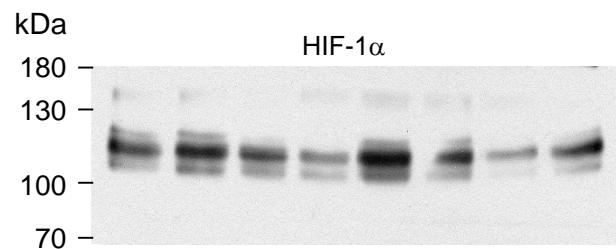
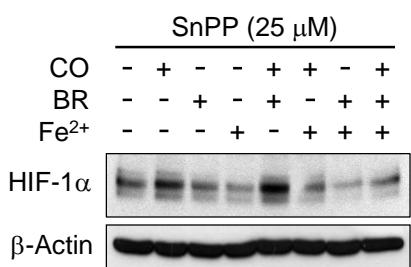
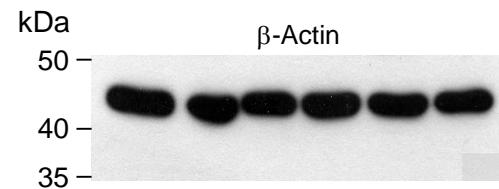
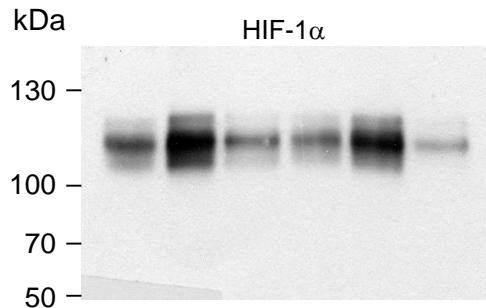
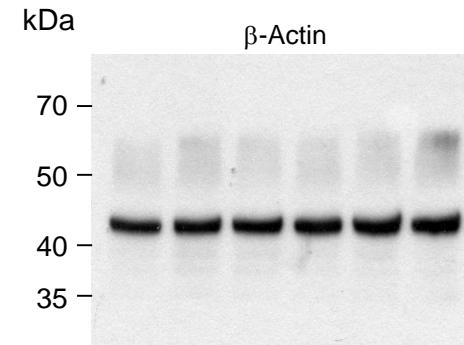
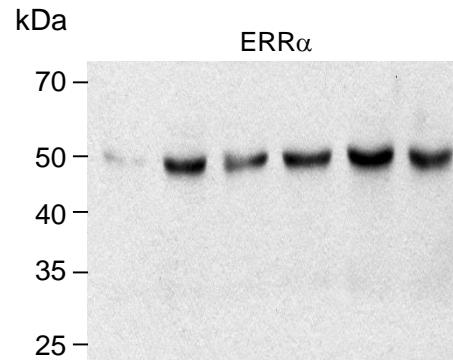
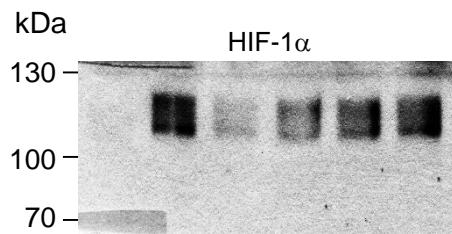
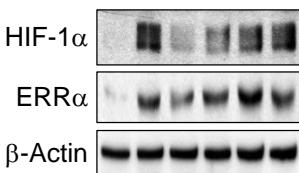
Fig 2C**Fig 2D****Fig 2E**

Fig 2F

CO+BR	-	+	+	-	+	+	+
SnPP	-	-	-	+	+	+	+
EGTA	-	-	+	-	-	-	+

**Fig 2G**

Ru/R	+	-	-	-	-	-	-
CO/R	-	+	+	+	+	+	+
Inhibitor	-	-	N	C	A	S	-

**Fig 3A**

siRNA	LKB1	CaMKK β	
	-	+	
LKB1			CaMKK β
β -Actin			β -Actin

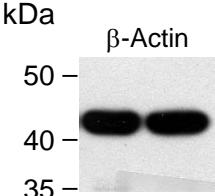
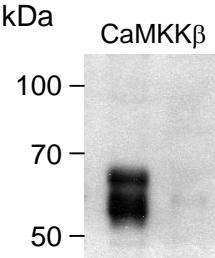
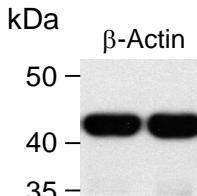
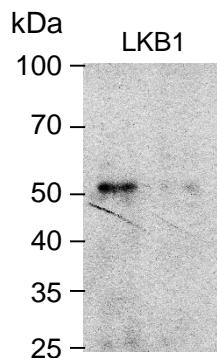
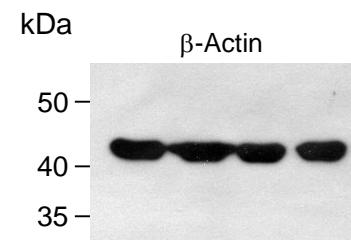
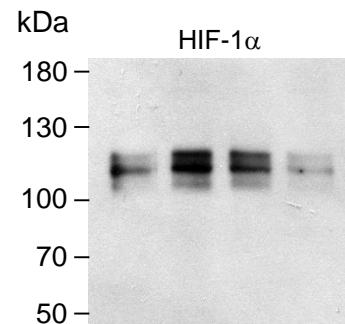
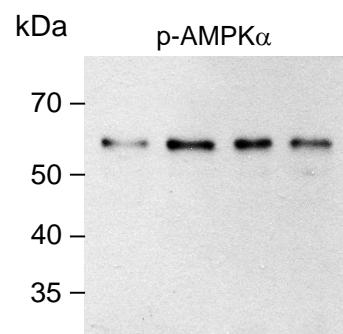


Fig 3B

Ru/R	+	-	-	-
CO/R	-	+	+	+
siLKB1	-	-	+	-
siCaMKK β	-	-	-	+
p-AMPK α	[band]	[band]	[band]	[band]
HIF-1 α	[band]	[band]	[band]	[band]
β -Actin	[band]	[band]	[band]	[band]

**Fig 3C**

Ru/R	+	+	-	-
CO/R	-	-	+	+
siAMPK α	-	+	-	+
AMPK α	[band]	[band]	[band]	[band]
p-AMPK α	[band]	[band]	[band]	[band]
HO-1	[band]	[band]	[band]	[band]
PGC-1 α	[band]	[band]	[band]	[band]
HIF-1 α	[band]	[band]	[band]	[band]
ERR α	[band]	[band]	[band]	[band]
β -Actin	[band]	[band]	[band]	[band]

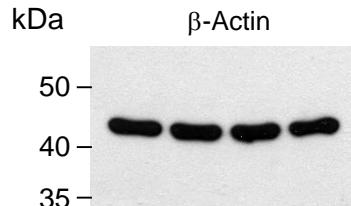
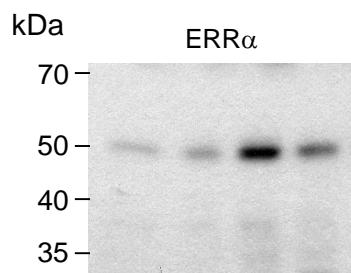
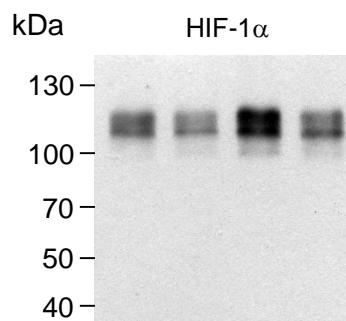
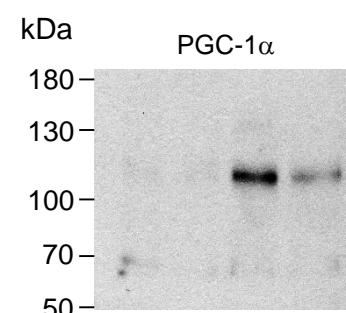
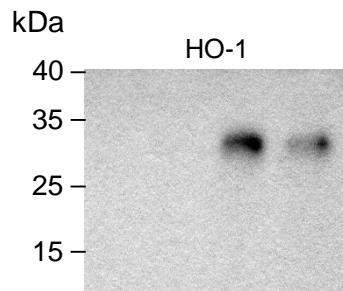
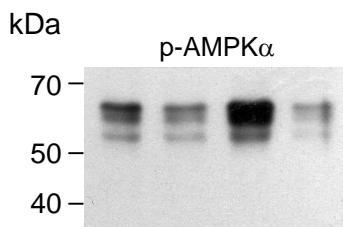
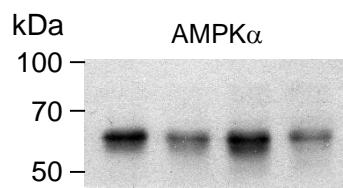
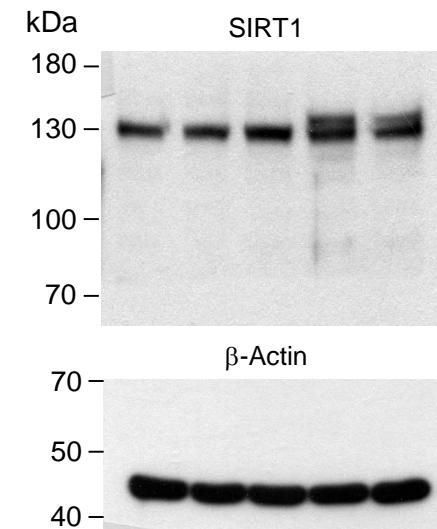
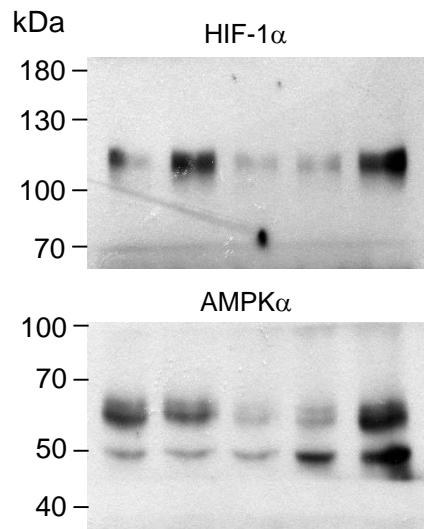


Fig 3D

Ru/R	+	-	-	-	-	-
CO/R	-	+	+	+	+	+
siAMPK α	-	-	+	+	-	-
SIRT1	-	-	-	+	+	+
HIF-1 α	[band]	[band]	[band]	[band]	[band]	[band]
AMPK α	[band]	[band]	[band]	[band]	[band]	[band]
t-SIRT1	[band]	[band]	[band]	[band]	[band]	[band]
SIRT1	[band]	[band]	[band]	[band]	[band]	[band]
β -Actin	[band]	[band]	[band]	[band]	[band]	[band]

**Fig 4F**

Ru/R	+	-	-	-	-	-
CO/R	-	+	+	+	+	+
siERR α	-	-	+	-	+	-
siPGC-1 α	-	-	-	-	+	+
PGC-1 α	[band]	[band]	[band]	[band]	[band]	[band]
ERR α	[band]	[band]	[band]	[band]	[band]	[band]
COX2	[band]	[band]	[band]	[band]	[band]	[band]
β -Actin	[band]	[band]	[band]	[band]	[band]	[band]

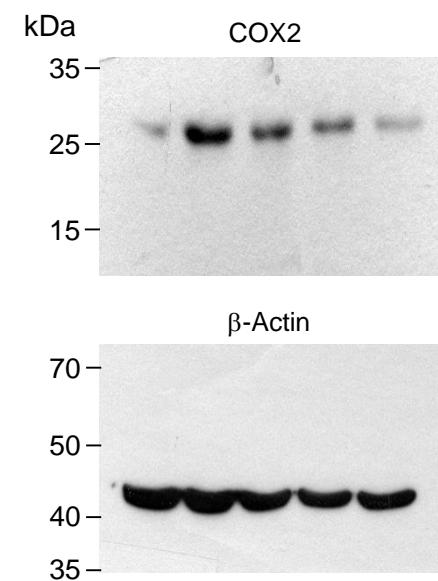
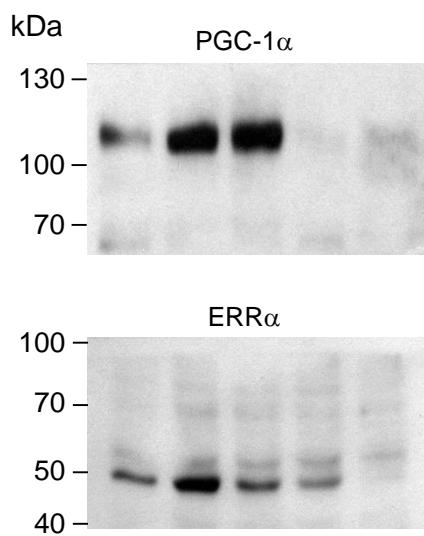


Fig 5A

The Western blot shows protein expression levels for HIF-1α and β-Actin across three cell lines: Ru/R, CO/R, and AMA. The HIF-1α band is prominent in the AMA lane, while β-Actin serves as a loading control.

Cell Line	HIF-1 α	β -Actin
Ru/R	Weak band	Strong band
CO/R	Weak band	Strong band
AMA	Strong band	Strong band



Fig 5B



Fig 5C

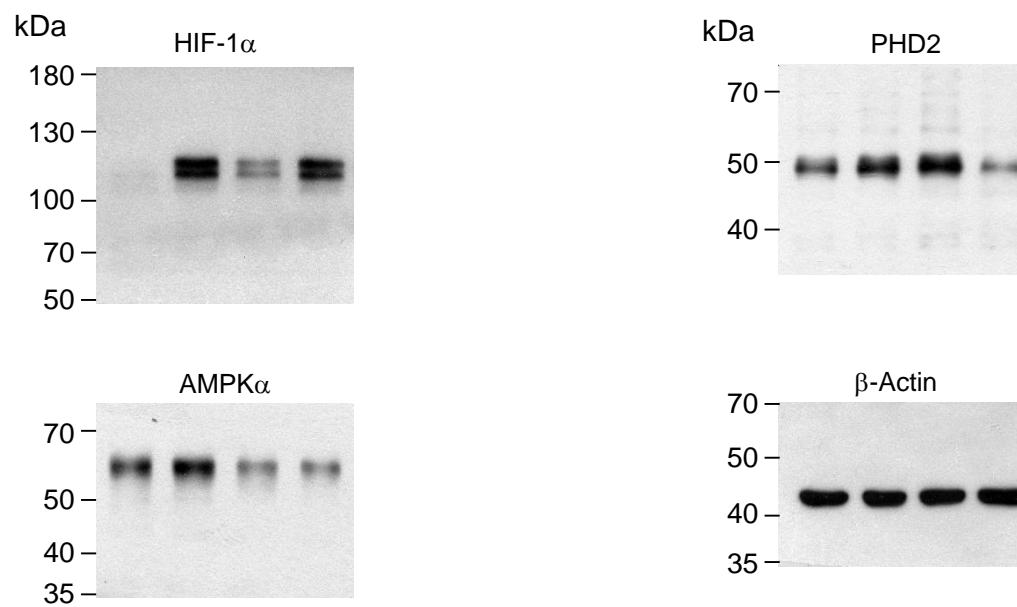
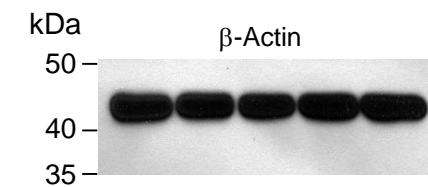
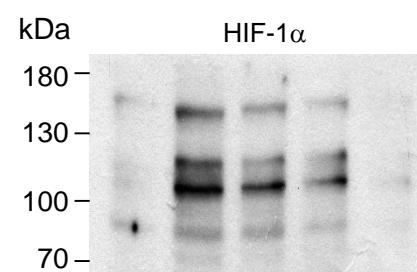
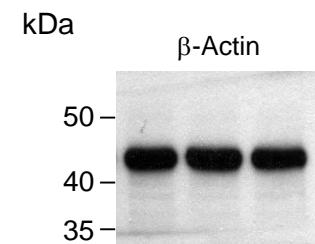
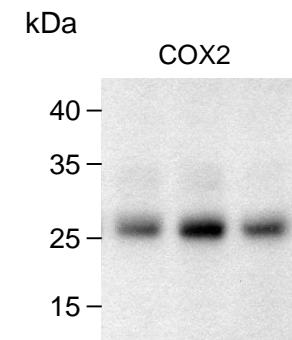
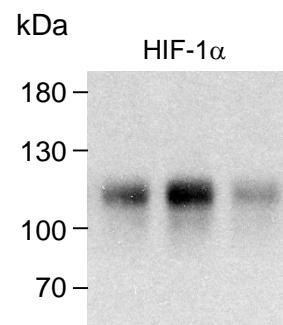


Fig 5D

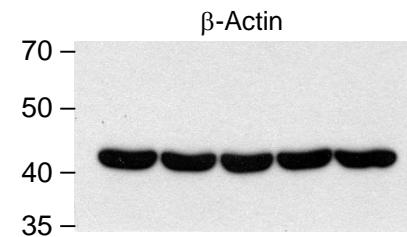
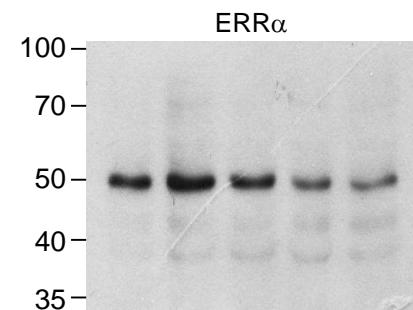
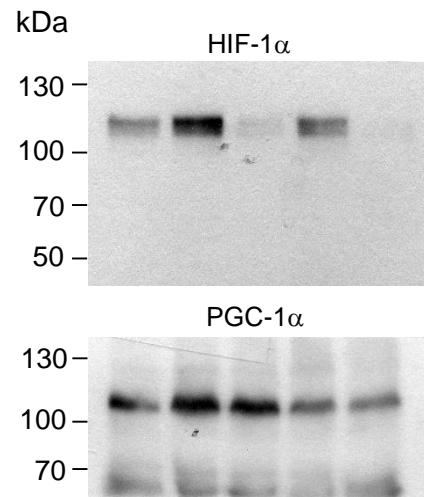
Ru/R	+	-	-	-	-	-
CO/R	-	+	+	+	+	+
siERR α	-	-	+	-	+	
siPGC-1 α	-	-	-	+	+	+
HIF-1 α	[band]	[band]	[band]	[band]	[band]	[band]
β -Actin	[band]	[band]	[band]	[band]	[band]	[band]

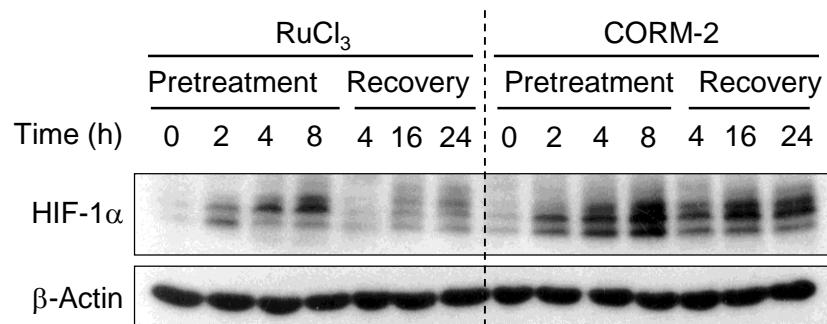
**Fig 5F**

Ru/R	+	-	-
CO/R	-	+	+
siHIF-1 α	-	-	+
HIF-1 α	[band]	[band]	[band]
COX2	[band]	[band]	[band]
β -Actin	[band]	[band]	[band]

**Fig 6A**

Ru/R	+	-	-	-	-	-
CO/R	-	+	+	+	+	+
siHIF-1 α	-	-	+	-	+	
siPGC-1 α	-	-	-	+	+	+
HIF-1 α	[band]	[band]	[band]	[band]	[band]	[band]
PGC-1 α	[band]	[band]	[band]	[band]	[band]	[band]
ERR α	[band]	[band]	[band]	[band]	[band]	[band]
β -Actin	[band]	[band]	[band]	[band]	[band]	[band]



S1A Fig**S1C Fig**