

Supplementary Materials: HSF1 Regulates Mevalonate and Cholesterol Biosynthesis Pathways

Hyeji Kang, Taerim Oh, Young Yil Bahk, Geon-Hee Kim, Sang-Yeon Kan, Dong Hoon Shin, Ji Hyung Kim and Ji-Hong Lim

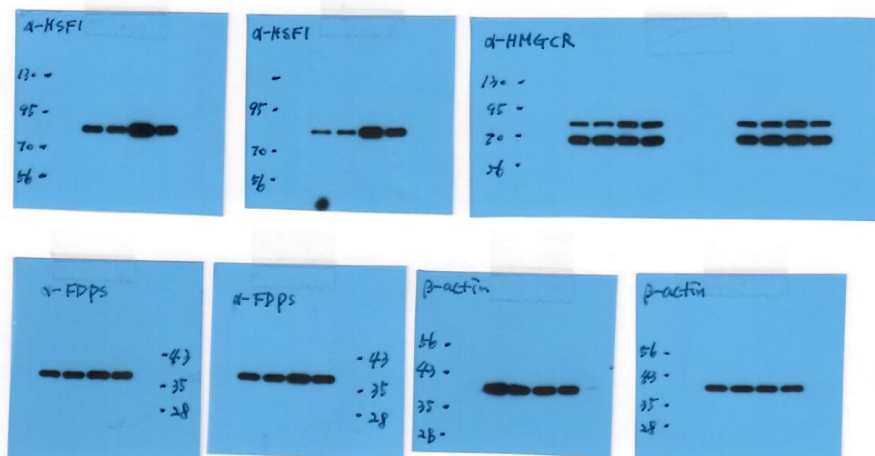


Figure 1D

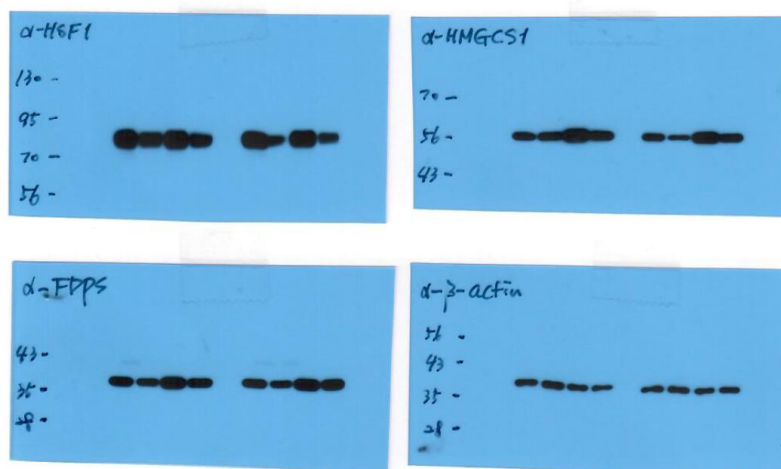


Figure 2A,B

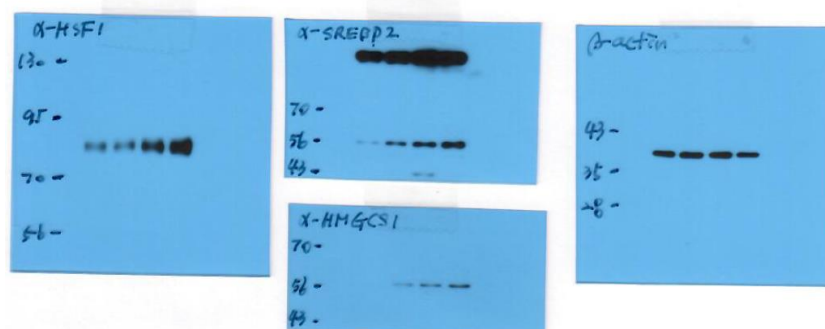


Figure 3E

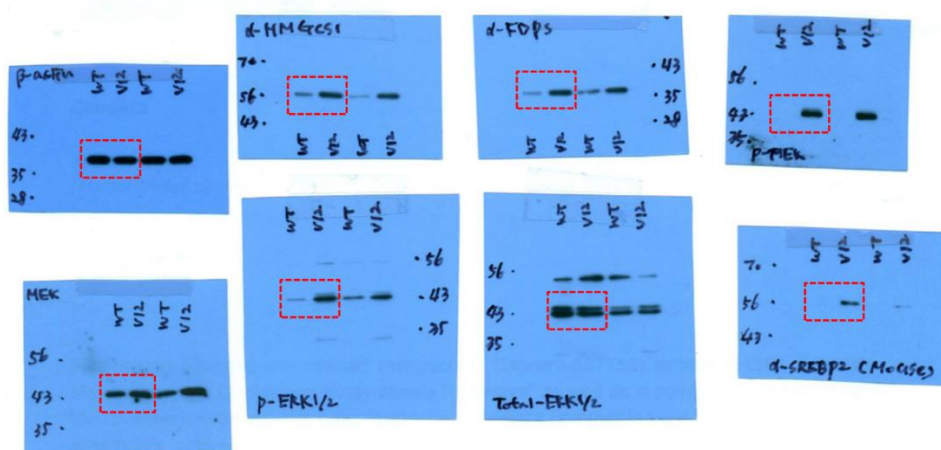


Figure 4B

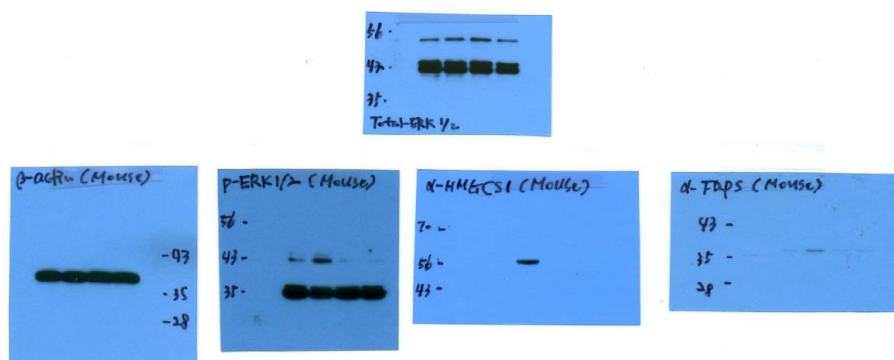


Figure 4D

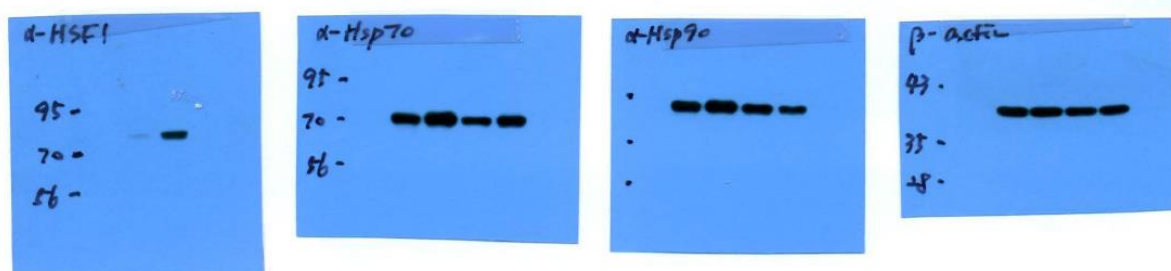


Figure 5B

Figure S1. Whole Scan of Western Blots Film.

Table S1. Densitometry analysis of Western Blots. All band intensities were normalized to control band in each experimental group.

Figure 1D								
	DMSO		Statin		DMSO		Statin	
	-	+	-	+	-	+	-	+
KRIBB11	-	+	-	+	-	+	-	+
HMGCS1	1	0.95	8.4	3.6	1	1.2	9.8	4.1
HMGCR	1	1.6	1.1	1.3	1	1.5	1.4	1.1
FDPS	1	1.3	1.7	1.5	1	1.2	2.1	1.5
β -actin	1	0.9	0.9	0.8	1	1.1	1	1

Figure 2A				Figure 2B				
	DMSO		Simvastatin		DMSO		Simvastatin	
shRNA	Scr	HSF1#1	Scr	HSF1#1	Scr	HSF1#2	Scr	HSF1#2
HSF1	1	0.7	1	0.6	1	0.3	1	0.4
HMGCS1	1	1.1	2.4	1.5	1	0.4	2.8	1.7
FDPS	1	0.8	1.9	1.1	1	0.8	1.7	1.5
β -actin	1	1.1	0.9	0.8	1	1	0.9	0.9

Figure 3E				
Heat Shock (hour)	0	0.5 h	1 h	2 h
HSF1	1	1.1	2.2	4.9
SREBP2	1	1.9	2.3	3.1
HMGCS1	Not detected	1	1.8	2.3
β -actin	1	1.1	1	0.8

Figure 4B		
H-Ras	H-Ras ^{WT}	H-Ras ^{V12}
p-ERK1/2	1	3.2
ERK1/2	1	1.1
p-MEK	Not detected	1
MEK	1	1.4
HMGCS1	1	2.9
FDPS	1	3.1
SREBP2	Not detected	1
β -actin	1	1

Figure 4D				
H-Ras	H-Ras ^{WT}	H-Ras ^{V12}	H-Ras ^{WT}	H-Ras ^{V12}
PD98059	-	-	+	+
p-ERK1/2	1	1.9	0.2	0.2
ERK1/2	1	1	1	0.8
HMGCS1	Not detected	1	Not detected	Not detected
FDPS	1	2.8	0.8	1.2
β -actin	1	1	1	1

Figure 5B				
H-Ras	H-Ras ^{WT}	H-Ras ^{V12}	H-Ras ^{WT}	H-Ras ^{V12}
PD98059	-	-	+	+
HSF1	Not detected	1	Not detected	Not detected
Hsp70	1	1.6	0.8	0.9
Hsp90	1	1.8	1	0.8
β -actin	1	1	0.9	0.9

