Evolution shapes the responsiveness of the D-box enhancer element to light

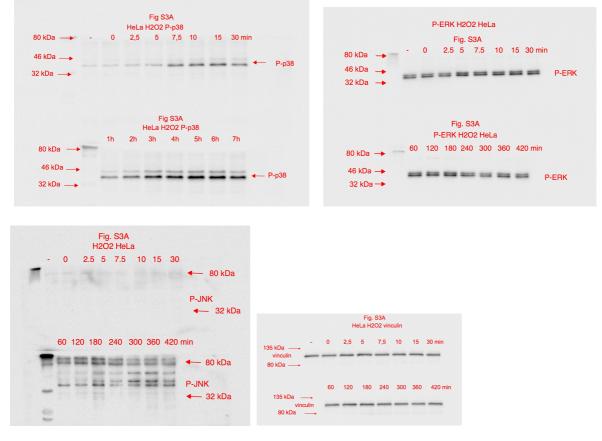
and reactive oxygen species in vertebrates.

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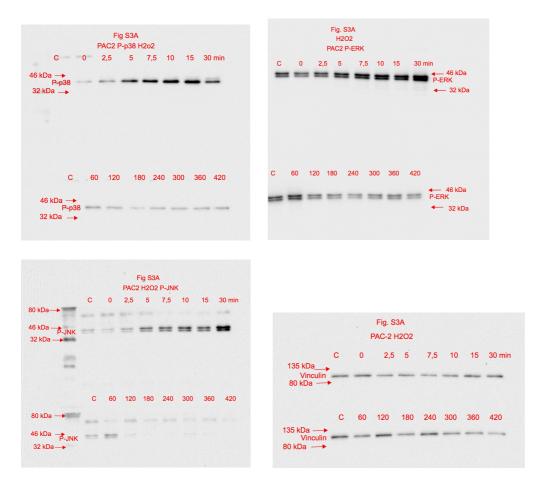
Original western blotting data

Original western blotting data for Figure S3

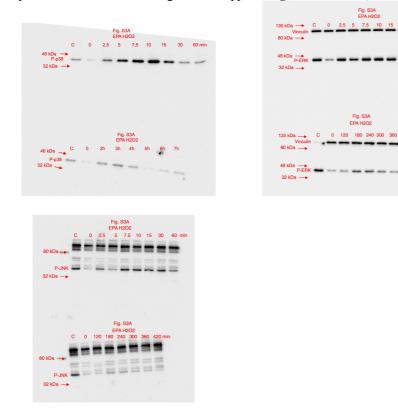
Original western blotting data from HeLa cells treated in a time course of 420 minutes with $300 \mu M H_2O_2$. The antibody used and in which main figure the cropped images are included, are indicated in each panel.



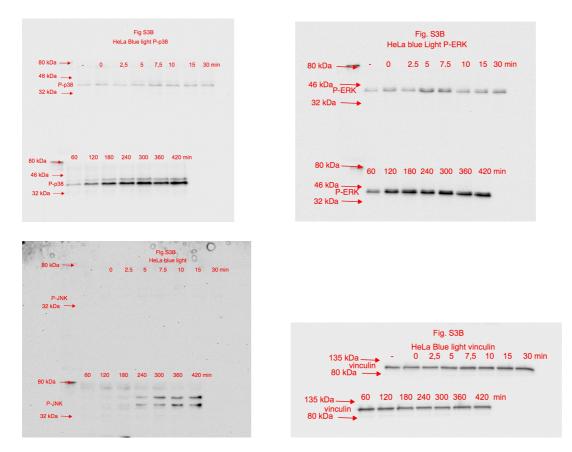
Original western blotting data from PAC-2 cells treated in a time course of 420 minutes with $300 \mu M H_2O_2$. The antibody used and in which main figure the cropped images are included, are indicated in each panel.



Original western blotting data from EPA cells treated in a time course of 420 minutes with $300 \mu M H_2O_2$. The antibody used and in which main figure the cropped images are included, are indicated in each panel.



Original western blotting data from **HeLa cells** exposed to **blue light** in a time course of 420 minutes. The antibody used and in which main figure the cropped images are included, are indicated in each panel.



Original western blotting data from **PAC-2 cells** exposed to **blue light** in a time course of 420 minutes. The antibody used and in which main figure the cropped images are included, are indicated in each panel.

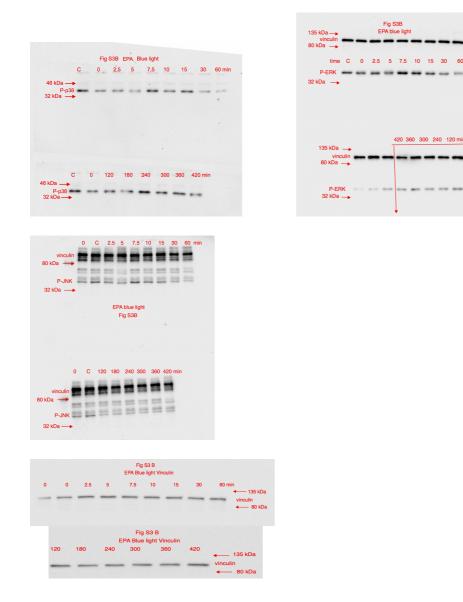
		Blue	Fig S light	3B PAC2				
	С					10	15	30 min
80 kDa —		-				*****	• ••••••	•
P-p38 32 kDa ——	-					-	•	-
	с	60 1:	20 18	0 24	10 3	00 :	360	420 min
80 kDa ——	terrer a							
P-p38 32 kDa →								-

				Fig.	S3B blue lig	ht		
80 kDa —	С	0.	2,5		7.5		15	30 min
	-	-	-		-		-	
P-JNK 32 kDa —				-	-	-		
C 80 kDa	60	120	18	0 24	10 30	0 36	0 4	20 min
÷.,		- 1	-					
P-JNK 32 kDa —	-	-					-	

		Fig. S	3B			
		PAC-2 bl	ue ligh	t		
	420 360	300 240	180	120 6	0	С
16 kDa P-FR		-	-	-	-	-
32 kDa —						
		Fig.	S3B			
				1.4		
		PAC-2	olue lig	nt		
п	nin 0 2.5				30	с
m 46 kDa	nin 0 2.5				30	С

Original western blotting data from EPA cells exposed to blue light in a time course of 420 minutes. The antibody used and in which main figure the cropped images are included, are indicated in each panel.

60

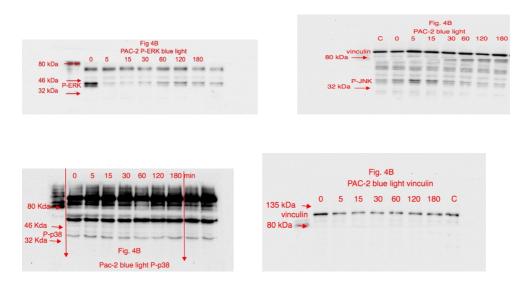


Original western blotting data for Figure 4

Original western blotting data from PAC-2 cells treated in a time course of 180 minutes with 300 µM H₂O₂. The antibody used and in which main figure the cropped images are included, are indicated in each panel.

Fig. 4A PAC2- P-p38 H2O2 80 kDa - 0 5 15 30 60 120 180 32 kDa -	Fig. 4A PAC2- P-ERK H2O2 0 5 15 30 60 120 180 46 kDa P-ERK 32 kDa
Fig 4A	0 5 15 30 60 120 180 min
H2o2 PAC-2 vinculin	46 kDa
0 5 15 30 60 120 180 min	7-JNK
135 Kda	32 kDa

Original western blotting data from **PAC-2 cells** exposed to **blue light** in a time course of 180 minutes. The antibody used and in which main figure the cropped images are included, are indicated in each panel.



Original western blot of **PAC-2** cells exposed for 60 minutes to **blue light** and treated with the two ROS inhibitors VAS and NAC. The antibody used and in which main figure the cropped images are included, are indicated in each panel.

