

Supplementary Information

Phosphorylation of adducin-1 by cyclin-dependent kinase 5 is important for epidermal growth factor-induced cell migration

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Supplementary Table S1. Predicted ADD1 phosphorylation sites for Cdk5.

Software	ADD1
Scansite ¹	S431
	S600
	T724
GPS ²	S431
	S600
	T724

Supplementary Table S2. Identification of ADD1 phosphorylation sites by mass spectrometry analysis.

ADD1	Cdk5 ^a	
domain	-	+
head	S12	S12
neck	S355	S355
	S358	S358
		S431
	S465	S465
tail		S586
		S600
		T724
	S726	S726

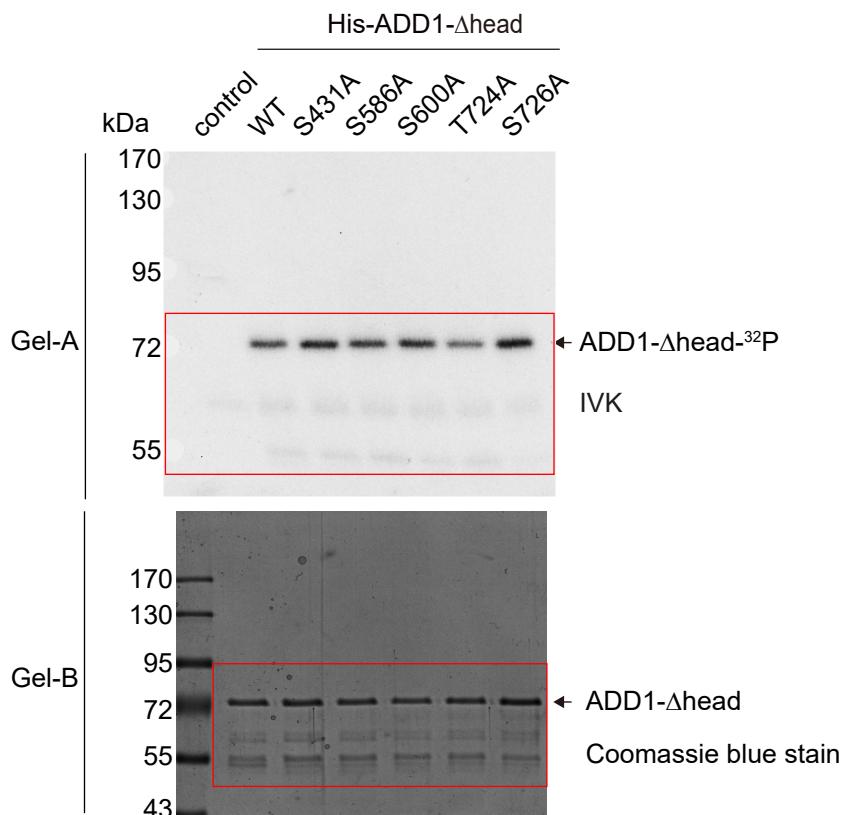
a. HEK293 cells were transiently transfected with (+) or without (-) Cdk5. Endogenous ADD1 was immunoprecipitated with anti-ADD1 antibody and the phosphorylation sites of ADD1 were identified by mass spectrometry.

References

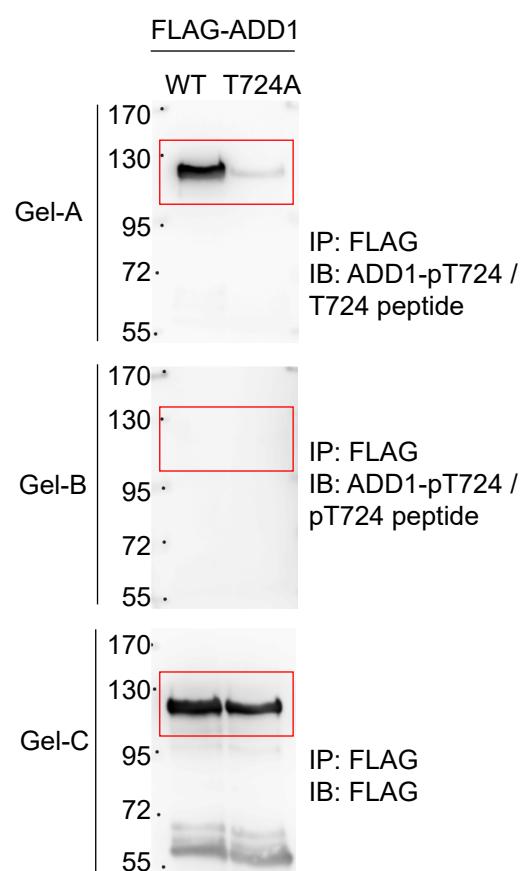
1. Obenaur, J.C., Cantley, L.C. & Yaffe, M.B. Scansite 2.0: proteome-wide prediction of cell signaling interactions using short sequence motifs. *Nucleic Acids Res.* **31**, 3635-3641; <http://scansite.mit.edu> (2003).
2. Xue, Y. *et al.* GPS 2.0, a tool to predict kinase-specific phosphorylation sites in hierarchy. *Mol. Cell Proteomics* **7**, 1598-1608; <https://omictools.com/gps-2-tool> (2008).

Raw data

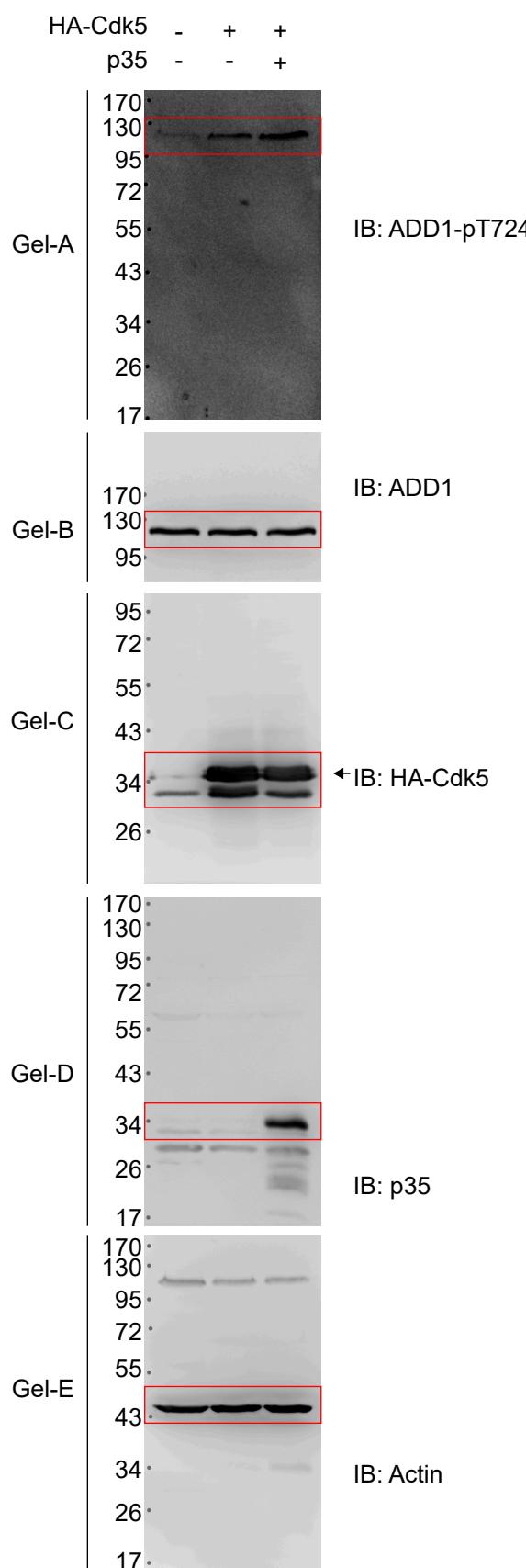
Supple. Fig. 1(a)



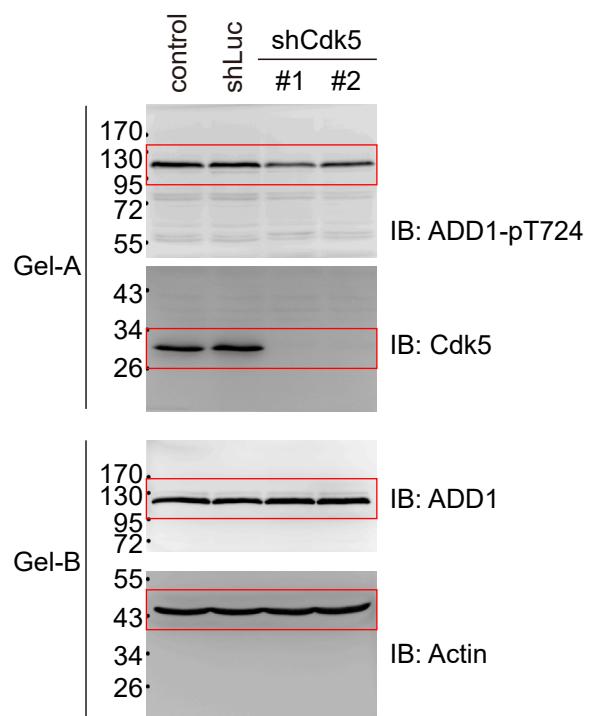
Supple. Fig. 1(b)



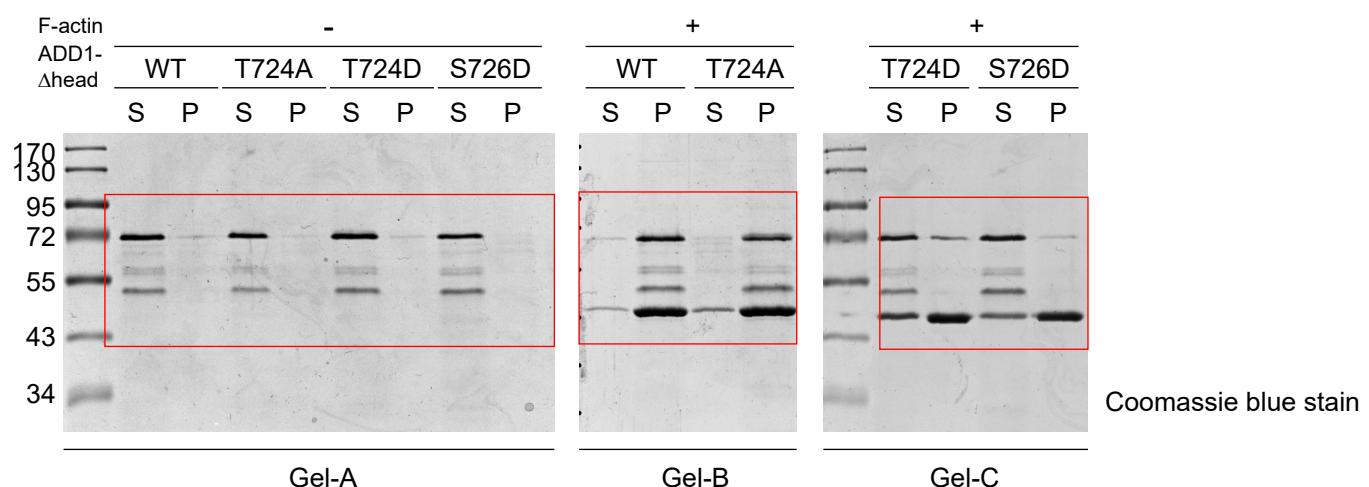
Supple. Fig. 1(c)



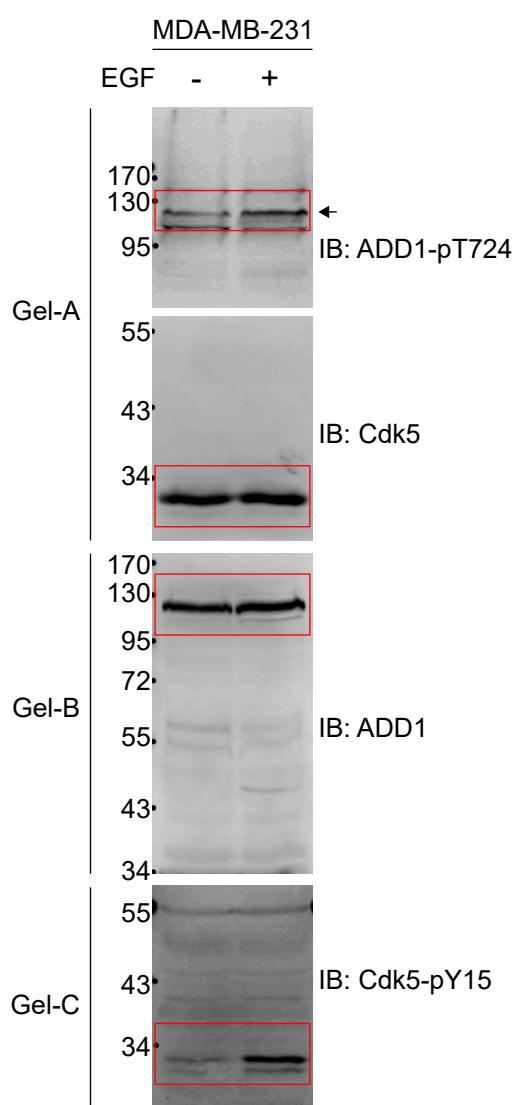
Supple. Fig. 1(d)



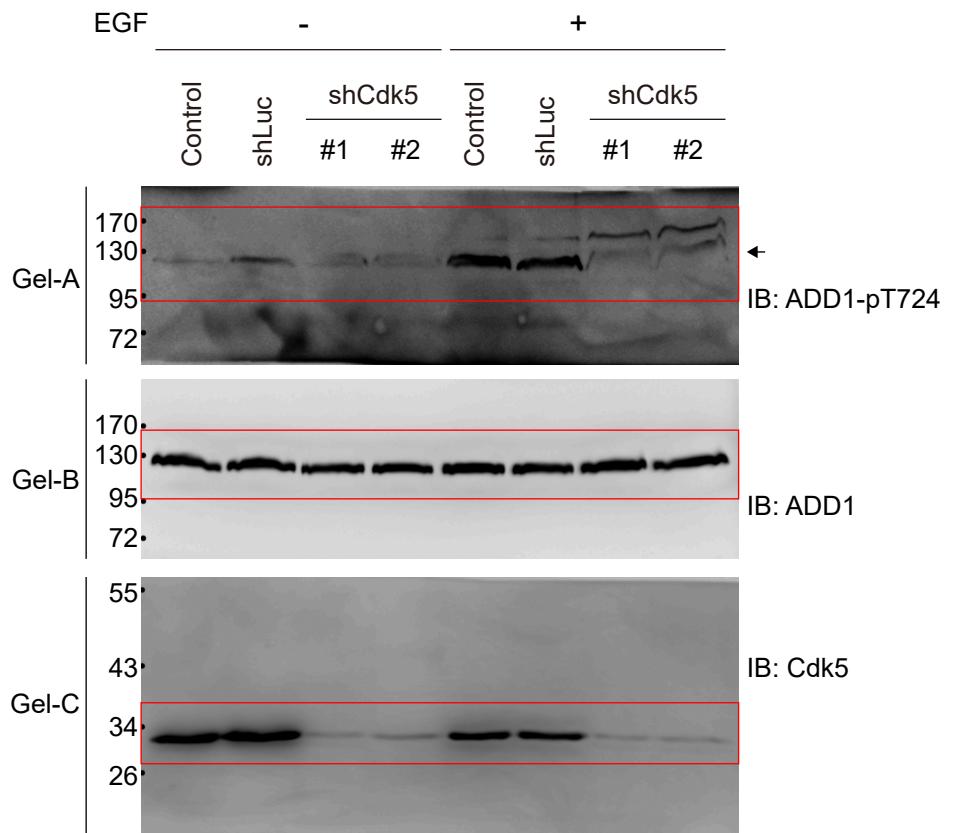
Supple. Fig. 2(a)



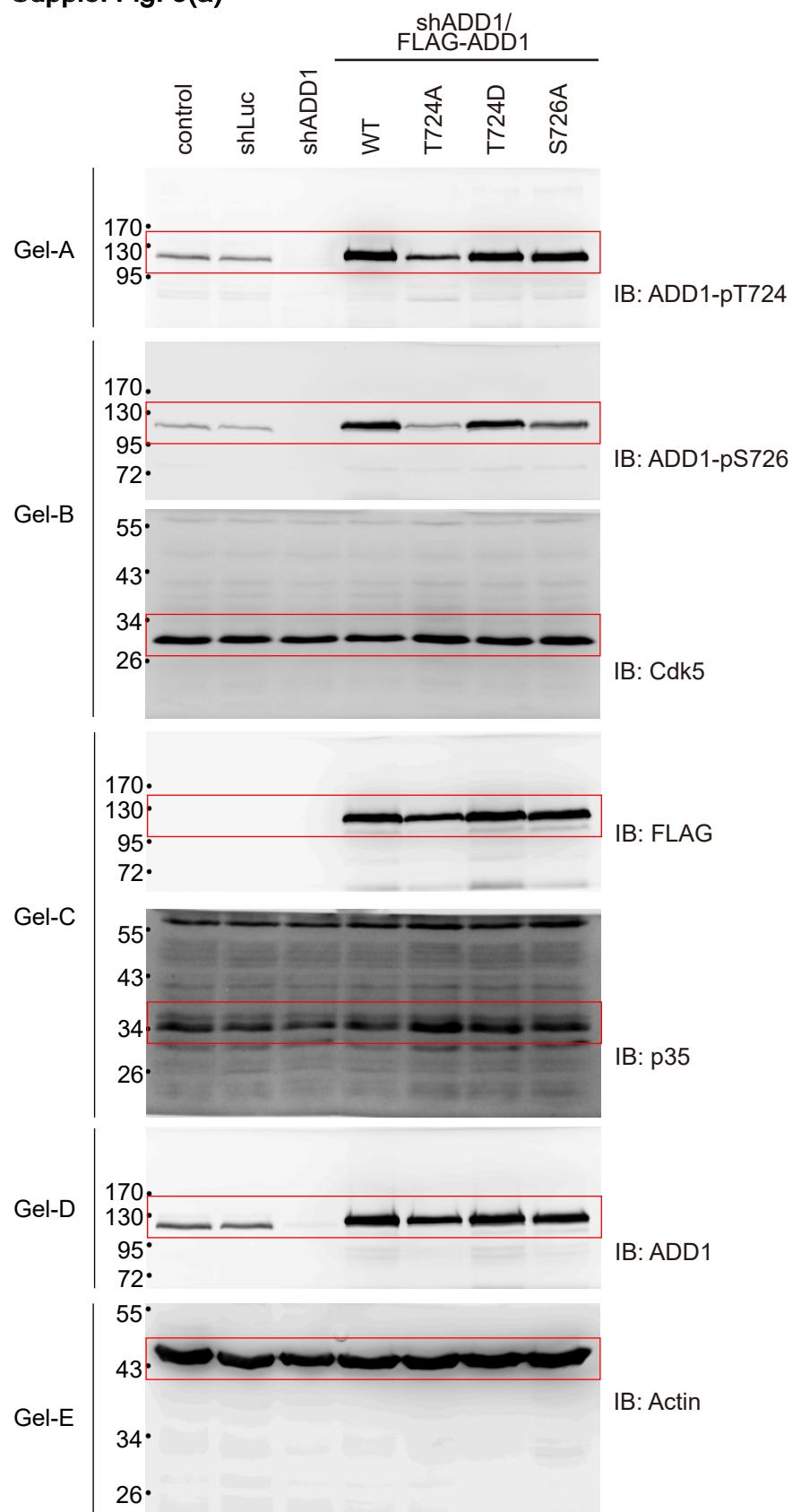
Supple. Fig. 4(a)

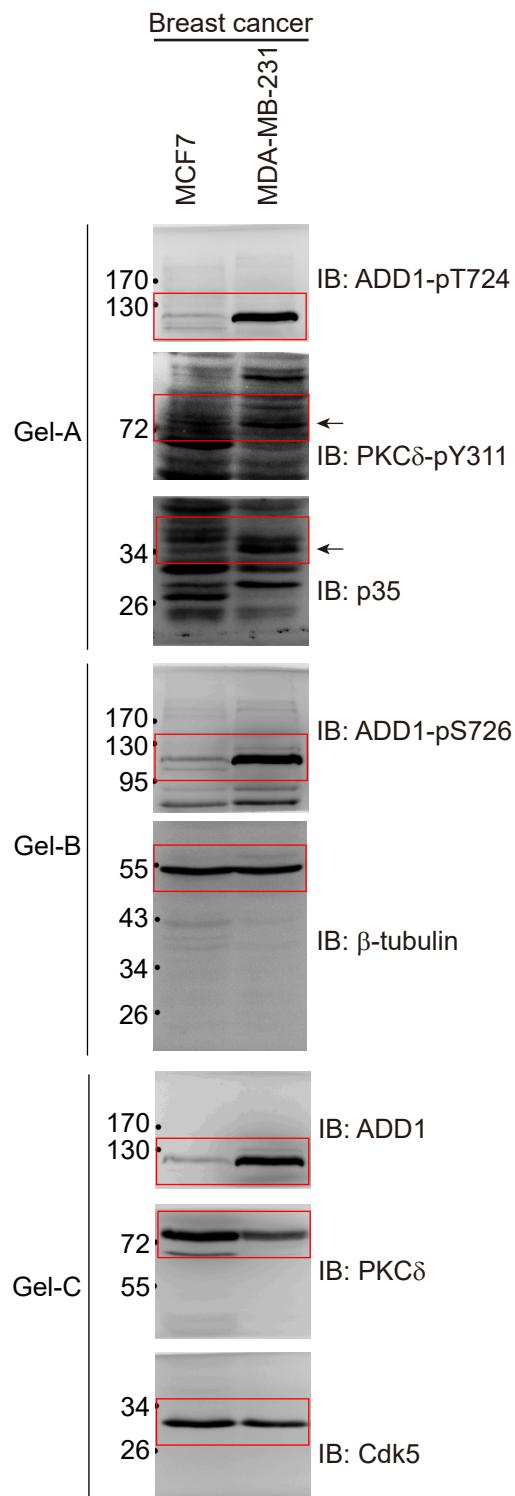


Supple. Fig. 4(b)



Supple. Fig. 5(a)



Supple. Fig. 7(a)**Supple. Fig. 7(b)**