

**Table S6. Antibodies used in the research**

<b>Antibodies</b>	<b>Source</b>	<b>Identifier</b>
<b>Anti-SERINC2</b>	Novus Biologicals	NBP1-60102, RRID:AB_11009118
<b>Anti-FLAG</b>	Sigma	F7425, RRID:AB_439687
<b>Anti-HA</b>	Cell Signaling Technology	#3724, RRID:AB_1549585
<b>Anti-GST</b>	Cell Signaling Technology	#2624, RRID:AB_2189875
<b>Anti-IgG</b>	Cell Signaling Technology	#2729, RRID:AB_1031062
<b>Anti-IgG</b>	Sigma	M8642, RRID:AB_260698
<b>Anti-GAPDH</b>	Proteintech	10494-1-AP, RRID:AB_2263076
<b>Anti-<math>\beta</math>-tubulin</b>	Invitrogen	32-2600, RRID:AB_86547
<b>Anti-H3</b>	Abcam	ab1791 , RRID:AB_302613
<b>Anti-H4</b>	Abcam	ab7311 , RRID:AB_305837
<b>Anti-H3K27ac</b>	Abcam	ab4729 , RRID:AB_2118291)
<b>Anti-H3K4me1</b>	Cell Signaling Technology	#5326, RRID:AB_10695148
<b>Anti-H3K4me3</b>	Cell Signaling Technology	#9751, RRID:AB_2616028
<b>Anti-HOXA9</b>	Proteintech	18501-1-AP
<b>Anti-HOXA10</b>	Santa Cruz Biotechnolog	sc-271428 , RRID:AB_10649855
<b>Anti-BRD4</b>	Cell Signaling Technology	13440, RRID:AB_2687578
<b>Anti-POL II</b>	Millipore	05-623 , RRID:AB_309852
<b>Anti-MLL1</b>	Bethyl	A300-086A , RRID:AB_242510
<b>Anti-m7G</b>	MBL	RN017M, RRID:AB_2725740