

**Supplementary table 1.** Antibodies used in western blotting, Co-IP and IHC

Primary antibodies	Dilution in WB or Co-IP	Source species	Company	Catalog No.
SYT7	1:1000	Rabbit	Tianjin Saierbio	SRP09489
CAV1(Caveolin-1)	1:500	Rabbit	abcam	ab2910
HMGB3	1:1000	Rabbit	abcam	ab75782
PCNA	1:1000	Mouse	abcam	ab29
POLE2	1:1000	Rabbit	abcam	ab180214
BRCA1	1:1000	Rabbit	CST	14823S
Ubiquitin	1:1000	Mouse	Santa Cruz	sc-47721
GAPDH	1:3000	Rabbit	Bioworld	AP0063
Primary antibodies	Dilution in IHC	Source species	Company	Catalog No.
SYT7	1:50	Rabbit	Tianjin Saierbio	SRP09489
Ki67	1:200	Rabbit	abcam	ab16667
HMGB3	1:50	Rabbit	abcam	ab75782
Secondary antibody	Dilution		Company	Catalog No.
HRP Goat Anti-Rabbit IgG (WB or Co-IP)	1:3000		Beyotime	A0208
HRP Goat Anti-Mouse IgG (WB)	1:3000		Beyotime	A0216
HRP Goat Anti-Rabbit IgG (IHC)	1:400		Abcam	ab6721