

Table S1 Detailed information of antibodies for immunofluorescence staining

Designation	Source	Concentration methods
TTF-1	ab76013, Abcam	1:250
Calretinin	ab92341, Abcam	1:4000
CD34	ab81289, Abcam	1:2500
CD56	ab220360, Abcam	1:2000
CD68	ab283654, Abcam	1:100
CDX2	ab76541, Abcam	1:1000
C-MET	ab51067, Abcam	1:100–1:250
CgA	ab283265, Abcam	1:5000
CK	ab7753, Abcam	1 µg/mL
CK20	ab76126, Abcam	1:100–1:250
CK7	ab68459, Abcam	1:100–1:250
CK8/18	orb607970, Biorbyt	1:500
Desmin	ab32362, Abcam	1:2000
E-cadherin	ab40772, Abcam	1:500
ER	ab32063, Abcam	1:500
GATA3	ab199428, Abcam	1:500
GATA6	ab175349, Abcam	1:100
GPA33	ab108938, Abcam	1:400
HER2	ab134182, Abcam	1:1600
HNF4 α	ab92378, Abcam	1:500
Ki-67	ab15580, Abcam	0.1–5 µg/mL
LCA	A6043, Wksublo	1:20
MTAP	ab126770, Abcam	1:1000
MUC4	ab307546, Abcam	1:500
NapsinA	ab133249, Abcam	1:500
P40	ab137691, Abcam	1:1000
P53	ab32049, Abcam	1:50
Pou2F3	HPA019652, LAIZEE	1:500
PD-L1	ab205921, Abcam	2 µg/mL
PR	ab32085, Abcam	1:250
SALL4	ab226756, Abcam	1:100
SMARCA4	ab110641, Abcam	1:100
Villin	ab130751, Abcam	1:100
WT-1	orb1295626, Abcam	1 µg/mL
ZEB1	ab203829, Abcam	1:100
β -catenin	ab32572, Abcam	1:500

TTF-1, thyroid transcription factor-1; CK, cytokeratin; C-MET, cellular-mesenchymal to epithelial transition factor; LCA, leucocyte common antigen; MTAP, methylthioadenosine phosphorylase; ER, estrogen receptor; PD-L1, programmed cell death ligand 1; PR, progesterone receptor; SALL4, spalt-like transcription factor 4; SMARCA4, SWI/SNF-related, matrix-associated, actin-dependent regulator of chromatin; WT-1, Wilms tumor 1; ZEB1, zinc finger E-box binding homeobox 1.