

Supplementary Table S1: Antibodies used for immunohistochemistry

Antibody	Clone	Manufacturer	Platform	Dilution
POU2F3	6D1	Santa Cruz	Leica BOND-MAX	1:100
ASCL1	24B72D11.1	BD Biosciences	Ventana Benchmark	1:50
NEUROD1	EPR17084	Abcam	Ventana Benchmark	1:30
YAP1	63.7	Santa Cruz	Ventana Benchmark	1:100
CD56	123C3.D5	Cell Marque	Ventana Benchmark	1:100
Chromogranin A	5H7	Novocastra	Ventana Benchmark	RTU
Synaptophysin	27G12	Novocastra	Leica BOND-MAX	1:200
INSM1	A-8	Santa Cruz	Ventana Benchmark	1:200
TTF-1	SP141	Ventana	Ventana Benchmark	RTU
p16	E6H4	Ventana	Ventana Benchmark	RTU
p63	4A4	Ventana	Ventana Benchmark	RTU
NUT	C52B1	Cell Signaling	Ventana Benchmark	1:200
BCL2	124	Dako	Leica BOND-MAX	1:100
PLCG2	HPA020100	Atlas Antibodies	Ventana Benchmark	1:100
c-MYC	EP121	Cell Marque	Ventana Benchmark	1:50
CD3	2GV6	Ventana	Leica BOND-MAX	RTU
CD20	L26	Dako	Leica BOND-MAX	1:500
CD8	SP57	Ventana	Leica BOND-MAX	RTU
PD-1	MRQ-22	Cell Marque	Ventana Benchmark	1:100
PD-L1	22C3	Dako	Dako	1:50

Abbreviation RTU, ready to use