

Appendix: Summary of Reagents Used for Histopathologic Analysis of Tumor Tissue

Antibody	Clone	Supplier	Performed by	Interpreted by
CD-19	J3-119	(Beckman Coulter, Inc. Brea, CA)	BJH Flow Cytometry Lab (St. Louis, MO)	Washington University, Dept. of Pathology (St. Louis, MO)
CD-20	B9E9 (HRC20)	(Beckman Coulter, Inc. Brea, CA)	BJH Flow Cytometry Lab (St. Louis, MO)	Washington University, Dept. of Pathology (St. Louis, MO)
Kappa	C0222, F0434 and R0436	(Dako, Denmark)	BJH Flow Cytometry Lab (St. Louis, MO)	Washington University, Dept. of Pathology (St. Louis, MO)
Lamda	F0435 and R0437	(Dako, Denmark)	BJH Flow Cytometry Lab (St. Louis, MO)	Washington University, Dept. of Pathology (St. Louis, MO)
CD-3	UCHT1	(Beckman Coulter, Inc. Brea, CA)	BJH Flow Cytometry Lab (St. Louis, MO)	Washington University, Dept. of Pathology (St. Louis, MO)
CD-5	BL1a	(Beckman Coulter, Inc. Brea, CA)	BJH Flow Cytometry Lab (St. Louis, MO)	Washington University, Dept. of Pathology (St. Louis, MO)
CD-23	9P25	(Beckman Coulter, Inc. Brea, CA)	BJH Flow Cytometry Lab (St. Louis, MO)	Washington University, Dept. of Pathology (St. Louis, MO)
CD-10	ALB1	(Beckman Coulter, Inc. Brea, CA)	BJH Flow Cytometry Lab (St. Louis, MO)	Washington University, Dept. of Pathology (St. Louis, MO)
Vimentin	V9	(Ventana Medical Systems, Inc., Tucson, AZ)	BJH Reference Lab (St. Louis, MO)	Washington University, Dept. of Pathology (St. Louis, MO)
WT-1	6F-H2	(Cell Marque, Sigma Aldrich, Inc., Rocklin, CA)	BJH Reference Lab (St. Louis, MO)	Washington University, Dept. of Pathology (St. Louis, MO)
INI-1	MRQ-27	(Cell Marque, Sigma Aldrich, Inc., Rocklin, CA)	BJH Reference Lab (St. Louis, MO)	Washington University, Dept. of Pathology (St. Louis, MO)
Calretinin	SP65	(Ventana Medical Systems, Inc., Tucson, AZ)	BJH Reference Lab (St. Louis, MO)	Washington University, Dept. of Pathology (St. Louis, MO)
CAM 5.2	CAM 5.2	(BD Biosciences, San Jose, CA)	BJH Reference Lab (St. Louis, MO)	Washington University, Dept. of Pathology (St. Louis, MO)
Pax-8	MRQ-50	(Cell Marque, Sigma Aldrich, Inc., Rocklin, CA)	BJH Reference Lab (St. Louis, MO)	Washington University, Dept. of Pathology (St. Louis, MO)
Gata3	L50-823	(Cell Marque, Sigma Aldrich, Inc., Rocklin, CA)	BJH Reference Lab (St. Louis, MO)	Washington University, Dept. of Pathology (St. Louis, MO)
S100	Polyclonal	(Ventana Medical Systems, Inc., Tucson, AZ)	BJH Reference Lab (St. Louis, MO)	Washington University, Dept. of Pathology (St. Louis, MO)
CK7	SP52	(Ventana Medical Systems, Inc., Tucson, AZ)	BJH Reference Lab (St. Louis, MO)	Washington University, Dept. of Pathology (St. Louis, MO)
CK20	SP33	(Ventana Medical Systems, Inc., Tucson, AZ)	BJH Reference Lab (St. Louis, MO)	Washington University, Dept. of Pathology (St. Louis, MO)
EMA	E29	(Ventana Medical Systems, Inc., Tucson, AZ)	BJH Reference Lab (St. Louis, MO)	Washington University, Dept. of Pathology (St. Louis, MO)
CD34	QBEnd/10	(Ventana Medical Systems, Inc., Tucson, AZ)	BJH Reference Lab (St. Louis, MO)	Washington University, Dept. of Pathology (St. Louis, MO)
D2-40	D2-40	(Cell Marque, Sigma Aldrich, Inc., Rocklin, CA)	BJH Reference Lab (St. Louis, MO)	Washington University, Dept. of Pathology (St. Louis, MO)
CD31	JC70	(Cell Marque, Sigma Aldrich, Inc., Rocklin, CA)	BJH Reference Lab (St. Louis, MO)	Washington University, Dept. of Pathology (St. Louis, MO)
SOX-10	Rabbit Polyclonal Antibody	(Cell Marque, Sigma Aldrich, Inc., Rocklin, CA)	Washington University Dermatopathology Center	Washington University, Dept. of Pathology (St. Louis, MO)
MiTf	C5/D5	(Ventana Medical Systems, Inc., Tucson, AZ)	Washington University Dermatopathology Center	Washington University, Dept. of Pathology (St. Louis, MO)
Tyrosinase	T311	GenPath (Elmwood Park, NJ)	GenPath (Elmwood Park, NJ)	Washington University, Dept. of Pathology (St. Louis, MO)
ALK	Vysis ALK Break Apart FISH probe kit (IVD)	(Abbott Molecular, Inc. Des Plaines, IL)	BJH Reference Lab (St. Louis, MO)	Washington University, Dept. of Pathology (St. Louis, MO)
ROS	ROS1 (6q22) breakapart probe set	(Kreatech Diagnostics, The Netherlands)	BJH Reference Lab (St. Louis, MO)	Washington University, Dept. of Pathology (St. Louis, MO)
PD-L1	22C3	(Agilent, Santa Clara, CA)	PhenoPath Laboratories (Seattle, WA)	PhenoPath Laboratories (Seattle, WA)
EGFR	Onkosight, PCR based, amplicon target enrichment and sequencing on Illumina MiSeq		GenPath (Elmwood Park, NJ)	GenPath (Elmwood Park, NJ)

BJH, Barnes-Jewish Hospital