

**Supplementary Table S1.** Probes and primary antibodies used in in situ hybridization and immunohistochemical staining

Antibody or probe	Species	Clone	Vendor	Code	Immunostainer	Dilution ratio <sup>a</sup>	Reaction time (min) <sup>a</sup>
EBER	-	-	Roche	800-2842	Ventana XT	-	-
EBER	-	-	Leica	PB0589	Leica Bond Max	-	-
CD3	Rabbit	-	Dako	A0452	Ventana XT	1:200	32
CD15	Mouse	MMA	Cellmarque	115M-16	Ventana XT	1:200	32
CD20	Mouse	L26	Dako	M0755	Ventana XT	1:200	32
CD20	Mouse	-	Leica	NCL-L-CD20	Leica Bond Max	1:400	32
CD30	Mouse	BER-H2	Dako	M0751	Ventana XT	1:100	32
CD56	Mouse	504	Leica	NCL-L-CD56-50	Ventana XT	1:50	32
Cytokeratin	Mouse	AE1/AE3	Leica	NCL-L-AE1/AE3	Ventana XT	1:200	32

EBER, Epstein-Barr virus-encoded RNA.

<sup>a</sup>Dilution ratio and reaction times of the primary antibody were conditions for single stain.