

Supplemental Table 1. Staining conditions for the primary antibodies.

Primary antibody	Clone	Vendor (catalog #)	Retrieval	Concentration	Incubation	Linker	Positive control
B7-H4	D1M8I	Cell Signaling (#14572)	Tris-EDTA (pH 9.0), water bath 40 min	1:50	room temp, 30 min		skin (hair follicle)
IDO1	10.1	Merck Millipore (MAB5412)	Tris-EDTA (pH 9.0), pressure cooker, microwave 18 min	1:200	room temp, 30 min		placenta
PD-L1	28-8	Abcam (ab205921)	Universal HIER antigen retrieval reagent(10x)(Abcam). water bath 40 min	1:400	room temp, 60 min	Envision FLEX+ Rabbit linker, RTU, (Dako), 10 min	tonsil
PD-L1	SP142	Roche (741-4860)	Stained according to fixed protocols for PD-L1 (SP142) on a VENTANA BenchMark ULTRA using Ventana Optiview DAB universal kit and sensitizer.				tonsil
AR	AR441	Agilent (M3562)	Tris-EDTA (pH 9.0), water bath 40 min	1:50	room temp, 30 min		prostate
CK 5/6	D5/16	Dako (GA780)	Tris-EDTA (pH 9.0), water bath 40 min	RTU	room temp, 30 min		tonsil
CD8	SP16	Thermo Fisher (MA5-14548)	Tris-EDTA (pH 9.0), water bath 40 min	1:50	4°C, Over night		tonsil
FOXP3	236A/EA	Abcam (ab20034)	Tris-EDTA (pH 9.0), water bath 20 min	1:100	4°C, Over night		tonsil

Abbreviations: PD-L1, programmed death-ligand 1; AR, androgen receptor; CK 5/6, cytokeratin 5/6; FOXP3; forkhead box protein P3; EDTA, ethylene diamine tetra acetic acid; HIER, heat-induced epitope retrieval; RTU, ready-to-use.