

Table S2: List of the used antibodies, antigen retrieval (AR), dilutions, and Opal dyes for multiplex fluorescence immunohistochemistry.

Primary antibody target	Identifier	Species	AR Reagents	AR Method	Dilution	Staining position	Opal dye	Secondary antibody	BLEACH&STAIN
CD68	DAKO, Clone: PG-M1 Cat#: IR61361-2	mouse, monoclonal	Leica*, pH9, Cat# AR9640	Autoclave 30min, 100-120°C, 2bar	RTU	1	520	Opal Polymer HRP Ms-Rb, Akoya, Cat#: ARH1001EA	Cycle 1
PD-L1	MSVA, Clone: MSVA-711R Cat#: 2083-711R-01	R, rabbit, monoclonal	Leica*, pH9, Cat# AR9640	Microwave 5min, 100°C + 5min, 93°C	1:450	2	570	Opal Polymer HRP Ms-Rb, Akoya, Cat#: ARH1001EA	Cycle 1
PD-1	Abcam, Clone: EPR4877(2) Cat#: ab137132	R, rabbit, monoclonal	Leica*, pH9, Cat# AR9640	Microwave 5min, 100°C + 5min, 93°C	1:150	3	650	Opal Polymer HRP Ms-Rb, Akoya, Cat#: ARH1001EA	Cycle 1
CTLA-4	MSVA, Clone: MSVA-152R Cat#: 3451-152R	R, rabbit, monoclonal	Leica*, pH9, Cat# AR9640	Microwave 5min, 100°C + 5min, 93°C	1:50	4	520	Opal Polymer HRP Ms-Rb, Akoya, Cat#: ARH1001EA	Cycle 2
CD11c	Abcam, Clone: EP1347Y Cat#: ab52632	rabbit, monoclonal	Leica*, pH9, Cat# AR9640	Microwave 5min, 100°C + 5min, 93°C	1:450	5	570	Opal Polymer HRP Ms-Rb, Akoya, Cat#: ARH1001EA	Cycle 2
CD163	Leica, Clone: 10D6 Cat#: CD163-L-CE	mouse, monoclonal	Leica*, pH9, Cat# AR9640	Microwave 5min, 100°C + 5min, 93°C	1:100	6	650	Opal Polymer HRP Ms-Rb, Akoya, Cat#: ARH1001EA	Cycle 2
PanCK	MSVA, Clone: MSVA-000R Cat#: 2105-000R-01	R, rabbit, monoclonal	Leica*, pH9, Cat# AR9640	Microwave 5min, 100°C + 5min, 93°C	1:300	7, 3	520, 650	Opal Polymer HRP Ms-Rb, Akoya, Cat#: ARH1001EA	Cycle 3
CD3	Agilent/DAKO, Clone: CD3 Cat#: A045229-2	rabbit, polyclonal	Leica*, pH9, Cat# AR9640	Microwave 5min, 100°C + 5min, 93°C	RTU	8	570	Opal Polymer HRP Ms-Rb, Akoya, Cat#: ARH1001EA	Cycle 3
iNOS	Abcam, Cat#: ab15323	rabbit, monoclonal	Leica*, pH9, Cat# AR9640	Microwave 5min, 100°C + 5min, 93°C	1:50	9	650	Opal Polymer HRP Ms-Rb, Akoya, Cat#: ARH1001EA	Cycle 3
FOXP3	BioLegend, Clone: 206D Cat#: 320102	mouse, monoclonal	Leica*, pH9, Cat# AR9640	Microwave 5min, 100°C + 5min, 93°C	1:25	10	520	Opal Polymer HRP Ms-Rb, Akoya, Cat#: ARH1001EA	Cycle 4
CD8	Agilent/DAKO, Clone: C8/144B Cat#: GA62361-2	mouse, monoclonal	Leica*, pH9, Cat# AR9640	Microwave 5min, 100°C + 5min, 93°C	RTU	11	570	Opal Polymer HRP Ms-Rb, Akoya, Cat#: ARH1001EA	Cycle 4
CD4	MSVA, Clone: MSVA-004R Cat#: 2278-004R-01	R, rabbit, monoclonal	Leica*, pH9, Cat# AR9640	Microwave 5min, 100°C + 5min, 93°C	RTU	12	650	Opal Polymer HRP Ms-Rb, Akoya, Cat#: ARH1001EA	Cycle 4
Ki67	MSVA, Clone: MSVA-267M Cat#: 2082-267M-01	mouse, monoclonal	Leica*, pH9, Cat# AR9640	Microwave 5min, 100°C + 5min, 93°C	1:50	13	520	Opal Polymer HRP Ms-Rb, Akoya, Cat#: ARH1001EA	Cycle 5
CD31	MSVA, Clone: MSVA-031M Cat#: 2517-031M-01	mouse, monoclonal	Leica*, pH9, Cat# AR9640	Microwave 5min, 100°C + 5min, 93°C	1:800	14	570	Opal Polymer HRP Ms-Rb, Akoya, Cat#: ARH1001EA	Cycle 5
CD20	MSVA, Clone: MSVA-020R Cat#: 2483-020R-01	R, rabbit, monoclonal	Leica*, pH9, Cat# AR9640	Microwave 5min, 100°C + 5min, 93°C	1:150	15	650	Opal Polymer HRP Ms-Rb, Akoya, Cat#: ARH1001EA	Cycle 5

(MSVA: MS Validated Antibodies GmbH, AE: antigen retrieval, R: recombinant, RTU: ready to use, *Bond Epitope Retrieval Solution 2)