

Expression Patterns of Carbonic Anhydrase IX and Immune Response Biomarkers in Pediatric Gliomas and Glioneuronal Tumors

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SI1. Primary antibodies and IHC conditions used in the study

Antibody	Clone & Manufacturer	Platform and Detection System	Antigen Retrieval	Primary Antibody Incubation	Amplification/Linker	Hematoxylin Counterstain
CAIX	EP161, CellMarque	Dako Omnis and EnVision Flex+	TRS High pH, 97°C, 30 min	30 min	Rabbit linker, 10 min	10 min
CD3	GA50361-2, Agilent	Dako Omnis and EnVision Flex+	TRS Low pH, 97°C, 30 min	20 min	Rabbit linker, 10 min	10 min
CD8	C8/144B, Agilent	Ventana BMU, UltraView	CC1 (pH 8.0), 52 min	32 min	A+B amplifiers	8 min
CD44	EPR1013Y, Abcam	Ventana BMU, UltraView	CC1 (pH 8.0), 64 min	32 min	None	8 min
CD68	KP1, Agilent	Dako Omnis and EnVision Flex+	TRS High pH, 97°C, 30 min	25 min	Mouse linker, 10 min	10 min
CD163	MRQ-26, CellMarque	Ventana BMU, UltraView	CC1 (pH 8.0), 64 min	32 min	A+B amplifiers	8 min
PD-1	NAT105, CellMarque	Ventana BMU*, UltraView	CC1 (pH 8.0), 64 min	32 min	A+B amplifiers	8 min
PD-L1	22C3, Agilent	Dako Omnis and EnVision Flex+	TRS** Low pH, 97°C, 40 min	40 min	Mouse linker, 10 min	3 min
CD206	E2L9N, Cell Signaling	Ventana BMU, UltraView	CC1 (pH 8.0), 64 min	32 min	None	8 min
CCR2	MA5-41175, Invitrogen	Ventana BMU, UltraView	CC1 (pH 8.0), 64 min	32 min	None	8 min

*Ventana BMU refers to the Ventana BenchMark Ultra system (Ventana Medical Systems, Tucson, AZ, USA)

**EnVision Flex TRS refers to Target Retrieval Solution