Beta catenin is a well-known crucial factor in astrocytoma progression and it is involved in aquaporin 1 (AQP1) mediated cell migration.

In a study, Zhang et al. revealed the function of AQP1 in astrocytoma progression and provided the first clinical evidence that AQP1 expression was positively correlated with β-catenin. Furthermore, they proved the functional role of AQP1/β-catenin pathway in astrocytoma progression. More importantly, they discovered that combination of AQP1 and β-catenin expression was an independent prognosis factor for astrocytoma patients and it was a better survival predictor than either AQP1 or β-catenin alone. In conclusion, the study provided a novel more precise prognostication for predicting astrocytoma prognosis based on combinatorial analysis of AQP1 and β-catenin expression [1].

1)
Zhang H, Qin F, Yang L, He J, Liu X, Shao Y, Guo Z, Zhang M, Li W, Fu L, Gu F, Ma Y. Combination of AQP1 and β-catenin expression is an independent prognosis factor in astrocytoma patients. Oncotarget. 2017 Jul 26. doi: 10.18632/oncotarget.19562. [Epub ahead of print] PubMed PMID: 28767413.