

Protocadherin10

Protocadherin10 (PCDH10)/OL-protocadherin is a cadherin-related transmembrane protein that has multiple roles in the brain, including facilitating specific cell-cell connections, cell migration and axon guidance. It has recently been reported that PCDH10 functions as a tumor suppressor and that its overexpression inhibits proliferation or invasion of multiple tumor cells. However, the function of PCDH10 in [glioblastoma](#) cells has not been elucidated.

In contrast to previous reports on other tumors, suppression of the expression of PCDH10 by RNA interference (RNAi) induces the growth arrest and apoptosis of glioblastoma cells in vitro. Furthermore, knockdown of PCDH10 inhibits the growth of glioblastoma cells xenografted into immunocompromised mice. These results suggest that PCDH10 is required for the proliferation and tumorigenicity of glioblastoma cells. PCDH10 may be a promising target for the therapy of glioblastoma ¹⁾.

¹⁾

Echizen K, Nakada M, Hayashi T, Sabit H, Furuta T, Nakai M, Koyama-Nasu R, Nishimura Y, Taniue K, Morishita Y, Hirano S, Terai K, Todo T, Ino Y, Mukasa A, Takayanagi S, Ohtani R, Saito N, Akiyama T. PCDH10 is required for the tumorigenicity of glioblastoma cells. *Biochem Biophys Res Commun*. 2014 Jan 6. pii: S0006-291X(13)02209-2. doi: 10.1016/j.bbrc.2013.12.138. [Epub ahead of print] PubMed PMID: 24406169.

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