

Fgl2KO Whole Tumor Cell Vaccine for Inducing Trm in Brains

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Abstract

Glioblastoma recurrence and brain metastases from tumors in other organs are major contributors to morbidity and mortality. The difficulty of preventing their recurrence or metastasis is often attributed to the exclusion of immune cells from brains due to the blood brain barrier. Here, we will disclose a novel preventive approach to rapidly induce long-duration brain-resident memory T (T_{RM}) cells to prevent brain tumor recurrence or progression via Fgl2 knockout (KO) whole tumor cell vaccination. We will also disclose the mechanism that this Fgl2KO transform tumor cells into non-tumorigenic cell vaccine. This observation provides new strategies for preventing brain metastases or brain tumor relapse.

