

PAK1 and **PAK4** may be stronger predictors of immune characteristics and are more suitable as drugs and molecular therapeutic targets. Furthermore, **Cox regression analysis** revealed that a **PAK** gene signature could be used as an independent prognostic factor for **low-grade glioma** (LGG) and glioblastoma (Glioblastoma). **Gene set enrichment analysis** (GSEA) analysis indicated that **PAK** genes may affect the occurrence and development of **glioblastoma** through the **PI3K signaling pathway**. Further experiments verified that **PAK1** and **AKT1** have a significant interaction in Glioblastoma cells, and inhibiting the overactivation of **PAK1** can significantly inhibit the proliferation of Glioblastoma cells.

The study provides a rationale for further research on the prognostic and therapeutic potential of PAKs in human tumors ¹⁾.

¹⁾

Lei K, Luo M, Tu Z, Lv S, Liu J, Gong C, Ye M, Wu M, Sheng Y, Long X, Li J, Zhu X, Huang K. Comprehensive analysis of the prognostic implications and functional exploration of **PAK** gene family in human cancer. *Cancer Cell Int.* 2022 Sep 5;22(1):275. doi: 10.1186/s12935-022-02689-6. PMID: 36064705.

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