

The expression of MAP2K4 was negatively correlated with miR-363-3p while positively related to [HNF1A-AS1](#) in glioma tissues. Bi et al. found the regulatory effect of HNF1A-AS1 on the MAP2K4-dependent [JNK signaling pathway](#). All findings indicated that HNF1A-AS1 induces the upregulation of MAP2K4 to activate the JNK signaling pathway to promote glioma cell growth by acting as a miR-363-3p sponge ¹⁾.

¹⁾

Bi Y, Mao Y, Su Z, Du J, Ye L, Xu F. Long non-coding RNA HNF1A-AS1 regulates proliferation and apoptosis of glioma through activation of the JNK signaling pathway via miR-363-3p/MAP2K4 [published online ahead of print, 2020 Aug 10]. J Cell Physiol. 2020;10.1002/jcp.29916. doi:10.1002/jcp.29916

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