

[Open Peer Review on Qeios](#)

Oncogene MYB

National Cancer Institute

Source

National Cancer Institute. *Oncogene MYB*. NCI Thesaurus. Code C16886.

Human Oncogene MYB is a mutated variant of MYB Gene, which encodes 6 alternative isoforms of 640 aa 72-kDa nuclear c-MYB protein, a DNA-binding transcriptional activator critical for hematopoietic progenitor cell proliferation and differentiation. MYB contains 3 N-terminal MYB-like DNA-binding domains that specifically recognize YAAC[GT]G, a central transcriptional activation domain and a C-terminal transcriptional repression domain. MYB may interact with HIPK2 and NLK; phosphorylation by NLK on multiple sites may induce proteasomal degradation. Ubiquitination may be mediated by SIAH1. Oncogene MYB disrupts normal cell function.