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Myb Oncogene Protein

National Cancer Institute

Source

National Cancer Institute. *Myb Oncogene Protein*. NCI Thesaurus. Code C17320.

Human MYB Oncogene Protein is a product of a mutated variant (Oncogene MYB) 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. MYB Oncogene Protein disrupts normal cell function.