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学位論文の題名	Aberrant activation pathway for EZH2 by IKK- ϵ -NF- κ B in colorectal cancer (大腸がんにおいては IKK- ϵ を介する NF- κ B 経路により EZH2 の異常な活性化が誘導される) Nagoya Medical Journal accept for publication, 2017
論文審査担当者	主査： 岡本 尚 副査： 竹山 廣光, 近藤 豊

Abstract

Enhancer of zeste homologue 2 (EZH2) is overexpressed in many types of cancer and associated with poor prognosis (Varambally et al.,2002, Kleer et al.,2003). However, the underlying mechanism of EZH2 overexpression is not fully understood. Using an EZH2 promoter inhibition assay with an siRNA library targeting known human kinases in colorectal cancer cell lines, we identified a novel role for the IKBKE (IKK- ϵ)—NF- κ B pathway in upregulating EZH2 expression. IKK- ϵ , a kinase, was observed to be highly expressed in colorectal cancer tissue. Further validation revealed that inhibiting IKBKE caused a significant reduction in EZH2 expression. These data suggest that the IKK- ϵ —NF- κ B pathway may play an important role in regulation of EZH2 expression in colorectal cancer.