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Basic Study

Relationship between *KRAS* mutation status, expression of RAS pathway signaling molecules, and the clinicopathological features and prognosis of patients with colorectal cancer

Wan XB *et al.* *KRAS* gene and RAS pathway signaling molecules

Xiang-Bin Wan, Ai-Qin Wang, Jian Cao, Zhi-Chuang Dong, Ning Li, Sen Yang, Miao-Miao Sun, Zhi Li, Su-Xia Luo

Abstract

BACKGROUND

The RAS/RAF/MEK/ERK and PI3K/AKT/mTOR signaling pathways all belong to mitogen-activated protein kinase (MAPK) signaling pathways. Mutations in any one of the upstream genes (such as the *RAS* gene or the *BRAF* gene) may be transmitted to the protein through transcription or translation, resulting in abnormal activation of the signaling pathway. This article studies the relationship between the *KRAS* gene mutation and the

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作者: VK Morris - 2014 - 被引用次数: 31 - 相关文章

2014年7月9日 - Keywords: **colorectal cancer**, **KRAS**, next-generation sequencing, gene **expression**, **survival** Overall **survival** of **patients** according to **RAS mutational status** and ... **pathways** that included **pathways** critical to VEGF **signaling**, tumor cell ... **expression** data from the TCGA provided **molecular** evidence to ...

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