

## CD105、COX-2 和 VEGF 在结直肠癌中的表达及其与血管新生的关系

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### Expression of CD105, COX-2 and VEGF and Their Relationship with Angiogenesis in Colorectal Carcinoma

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- 摘要
- 参考文献
- 相关文章

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#### 摘要

目的 探讨结直肠癌中CD105在新生血管中的表达, 环氧化酶(COX-2)和血管内皮生长因子(VEGF)表达及其与血管生成的关系。方法 应用免疫组化SP法检测58例结直肠癌CD105表达的微血管密度, 以及COX-2、VEGF的表达。结果 58例结直肠癌中, CD105表达的MVD值为(36.50±9.59), COX-2和VEGF的阳性表达率各为69%和67.2%。COX-2或VEGF表达阳性组的MVD值显著高于COX-2或VEGF表达阴性组(P<0.05)。COX-2和VEGF均阳性组的MVD值显著高于均阴性组(P<0.01)。COX-2与VEGF表达显著正相关; COX-2、VEGF表达均与MVD显著正相关(P<0.01)。结论 CD105是结直肠癌新生血管的特异性标记物, COX-2表达与结直肠癌血管生成有关, VEGF可能是COX-2诱导血管生成的重要介质。

关键词: 结直肠癌 CD105 COX-2 VEGF 微血管密度

Abstract: Objective To investigate the expression CD105 in newborn vessel of COX-2 and VEGF in colorectal carcinoma and their relationship with angiogenesis. Methods Immunohisto-chemical staining (S-P method) for CD105, COX-2 and VEGF was performed in 58 cases of colorectal carcinoma; the microvessel density (MVD) was marked by CD105. Results The value of MVD with marked CD105 was (36.50 ± 9.59), the positive rate of COX-2 and VEGF were respectively 69% and 67.2%. The MVD in COX-2 positive group or VEGF positive group was significantly higher than that in COX-2 negative group or VEGF negative group (P < 0.01). The MVD in the group of both COX-2 and VEGF positive was significantly higher than that in both negative groups. There was a significant positive correlation between the expression of COX-2 and VEGF. Conclusion CD105 was a specific marker of newborn vessel in colorectal carcinoma; COX-2 was correlated to angiogenesis and VEGF may be an important mediator in this process.

Key words: Colorectal cancer CD105 COX-2 VEGF Microvessel density (MVD)

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