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PRINT: ISSN 0972-3757 ONLINE: ISSN 2456-6330

Int J Hum Genet, 25(3): 162-176 (2025)

DOI: 10.31901/24566330.2025/25.03.914

Analysis of the Relationship Between YWHAE and CDC6 Expression and Clinicopathological Characteristics of Colorectal Cancer

Cheng Yang^{1,2}, Ding Xiang Chen¹ and Xiang Rao^{3*}

**¹Department of Pathology, The First Affiliated Hospital, Hainan Medical University,
Hainan, China 570102**

**²Department of Pathology, Guangdong Provincial Hospital of Chinese Medicine,
HaiNan Hospital, China 570203**

**³Department of Pathology, HaiKou Affiliated Hospital of Central South University
Xiangya School of Medicine, Hainan, China 570208**

KEYWORDS Biomarkers. Cell Cycle Proteins. Colon Neoplasms. Prognosis. Signal Transduction

ABSTRACT This study explores the expression of YWHAE and CDC6 in colorectal cancer (CRC) and their association with clinicopathological features and prognosis. mRNA expression profiles were obtained from The Cancer Genome Atlas (TCGA), and correlations with clinical data were analysed. Tissue microarrays from CRC patients were assessed using RNAscope and immunohistochemistry (IHC). Survival outcomes were evaluated by Kaplan-Meier and COX regression analyses. Both YWHAE and CDC6 mRNA were significantly upregulated in CRC tissues ($P < 0.05$) and showed a positive correlation ($P < 0.01$). IHC revealed high protein expression of YWHAE and CDC6 in CRC tissues, which was significantly associated with lymph node metastasis, pathological stage, and reduced survival ($P < 0.05$). Multivariate analysis confirmed both as independent prognostic factors. These findings suggest that YWHAE and CDC6 play a role in CRC progression and may serve as valuable biomarkers and potential therapeutic targets.